

Ciba Specialty Chemicals Corporation
USA
Toms River Site



Ciba

Rec'd

5-12-03

F.B.

May 8, 2003

Mr. Frank Battaglia
HBT
USEPA REGION 1
1 Congress Street
Suite 1100
Boston, MA 02114-2023

**RE: Sediment Sampling Report for the Pawtuxet River,
Former Ciba-Geigy Facility, Cranston, RI**

Dear Mr. Battaglia:

Enclosed for your review is the report for the Pawtuxet River sediment sampling that took place in November of 2002. This fulfills the sediment sampling requirement set forth by USEPA and RIDEM as part of a follow-up study on remediation work completed at the former Ciba facility in 1996.

If you have any questions, feel free to call or e-mail. We can set up a meeting to discuss the sampling results at your convenience.

Very truly yours,

Robert Youhas
Environmental Associate
Ciba Specialty Chemicals Corporation

Enclosure (1)

cc: M. Bradley, RIDEM – Full Report
R. McNabb, Ciba – Full Report
W. Allen, Ciba – Full Report
Ciba File, - Full Report

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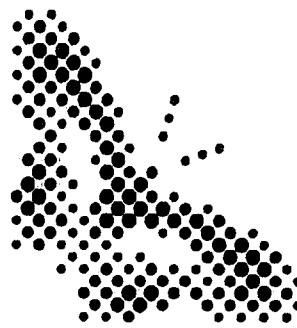
Value beyond chemistry

SEDIMENT SAMPLING REPORT FOR THE PAWTUXET RIVER

FORMER CIBA-GEIGY FACILITY CRANSTON, RHODE ISLAND

SUBMITTED BY

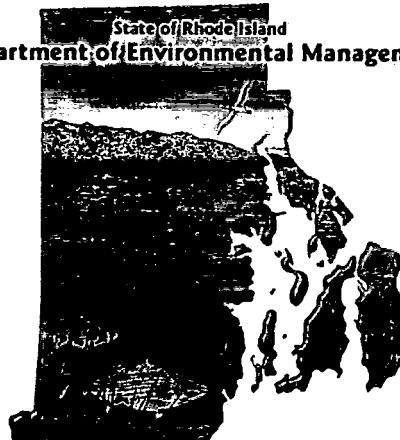
Ciba



SUBMITTED TO

EPA
United States Environmental
Protection Agency

**State of Rhode Island
Department of Environmental Management**



PREPARED BY

**Ciba Specialty Chemicals
Corporate Remediation
Toms River, New Jersey
MAY 2003**

6/12/03

**Sediment Sampling Report for the Pawtuxet River
Former Ciba-Geigy Facility, Cranston, Rhode Island**

Ciba Specialty Chemicals Corp.

May 2003

Report Date: May 2003

Page 1 of 10

Region:

Cape Cod

Site ID:

S001100

Baseline

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1.0 OVERVIEW

This report presents the results of the November 2002 Pawtuxet River sediment sampling event, conducted at the former Ciba production facility in Cranston, RI. Sediment sampling was required by USEPA and RIDEM as part of a follow-up study on remediation work completed at the facility in 1996 (CMS 1996). Sediment sampling and analysis of river sediments were proposed as a means of evaluating projected improvements in four reaches of the Pawtuxet River adjacent to the former Ciba facility.

2.0 SITE HISTORY

The Alrose Chemical Company manufactured chemicals at the Site beginning in 1930. The Geigy Chemical Company purchased the Site in 1954 and merged with Ciba Corporation in 1970. The facility operated until May 1986. Throughout its operational history, the Site was used for the manufacturing of various agricultural products, leather and textile auxiliaries, plastics additives, optical brighteners, pharmaceuticals, and bacteriostats.

An Administrative Order of Consent in which Ciba agreed to conduct an RCRA Corrective Action Study at the Site was issued to Ciba. The Order became effective in June 1989. There are four stages to an RCRA Corrective Action Study: an RCRA Facility Assessment (RFA), an RCRA Facility Investigation (RFI), a Corrective Measures Study (CMS) Proposal and a Corrective Measures Study Report. The RFA, conducted by USEPA prior to the Order, determined that known and/or suspected releases of hazardous materials had occurred at the Site. The RFI was then conducted in 1996 to characterize the impact of known or suspected releases that were determined by the RFA to require further investigation. The Pawtuxet River RFI consisted of five tasks: the physical characterization, source characterization, release characterization, river modeling (hydrodynamic, sediment transport, and fate and transport of contaminants), and an ecological risk assessment. The CMS Report for the Pawtuxet River was submitted in 1996. The CMS Report identified, described, and evaluated the corrective measures necessary to achieve the Media Protection Standards (MPS) proposed for the media of concern.

As part of the overall IRM program that Ciba is implementing at this Site, a voluntary sediment IRM (Interim Remedial Measure) was conducted during the period October 12, 1995 through January 10, 1996. The sediment IRM was conducted according to the procedures presented in the Conceptual Design Work Plan, Cranston Site, Cofferdam Interim Remedial Measure (Work Plan) that was submitted to USEPA, RIDEM, and the USACOE in May 1995. Over 2,225 tons of contaminated sediment were excavated from the Pawtuxet River and replaced with clean sand during the Sediment IRM. The excavated area contained a sampling location (SD-03R) where high concentrations of PCBs were measured, as well as the only location in the Upper or Lower Facility reaches where 4-Chloroaniline was measured. When completed, the Sediment IRM achieved its

primary objective of excavating and disposing of visually contaminated river sediment from the Former Cofferdam Area.

Post-excavation sampling of river sediment was required by EPA/RIDEM. This requirement was fulfilled in November 2002, with the results contained in this report.

2.1 PAWTUXET RIVER CHARACTERISTICS

The Pawtuxet River is a fourth order stream that drains about 230 square miles of mixed industrial and urban land. Flow in the river is regulated by reservoirs upstream. The river is classified by RIDEM (2000) as Class B1. Class B1 waters are designated for fish and wildlife habitat and primary and secondary contact recreational activities. The average daily flow in the river is about 350 cubic feet per second. Highest flows occur in April; lowest flows occur in August. In the 4.5 mile section of the river from the Cranston gauge to Pawtuxet Cove Dam, the river varies from about 60 to 200 feet wide, with mid-channel depths of 3 to 14 feet. Sediment thickness ranges from 0 to 4 feet thick, based on manual probing of sediment. Depositional zones, or areas where sediments are thicker, tend to occur on the inside bends of the river and just downstream of large pools. Sediment within these depositional zones is typically characterized by high total organic carbon, higher percentage of fine-grained material, and higher cation exchange capacity.

3.0 SCOPE OF WORK

- Sediment core samples were obtained at the vertical depth layers and locations specified in Sections 3.1 and 3.2 to determine how contaminant concentrations in the different sediment layers have changed since 1992. Note that sampling location SD-03R is within the remediated Former Cofferdam Area.
- Sediment core samples were analyzed for the presence of contaminants found during the 1992 sediment sampling campaign.
 - Inorganics, VOCs, and PAHs, and PCBs were the target analytes selected for study.
- The current status of surficial and deep sediment contaminant concentrations upstream, downstream, and within the former Ciba facility reaches of the Pawtuxet River was evaluated and compared with the 1996 RFI Report data.

3.1 Sediment Sampling Locations

Sediment samples were obtained from each of the four reaches of the former Ciba-Geigy facility: upstream, upper facility, lower facility, and downstream. The sediment sampling locations are shown in Figures 3-1, 3-2, and 3-3 with red diamonds. Sediment sampling locations were selected on the basis of concentrations measured during the Release Characterization and from recommendations made in the Draft 1996 CMS.

3.2 Sediment Sampling Methodology

All samples were collected using the gravity push core method, similar to that used during the RFI. Starting at the downstream locations first (to avoid cross-contamination of disturbed sediments migrating downstream from the sampling points), plastic corers were dropped to the sediment-water interface and then pushed by hand (or pounded with a mallet) to a minimum of 14" (to allow for an accurate 12" core), or the maximum possible penetration. Once the desired penetration depth was achieved, the corer was extracted by hand and capped. Three replicate cores were taken per station, but only one core per station was analyzed immediately. The other two replicates were preserved (frozen) for additional analysis, as needed.

Cores were sectioned indoors, in the former Ciba facility, and transferred to glass containers with appropriate labeling for delivery to Lancaster Laboratories. Lancaster Laboratories tested the samples for all analytes, except for Tinuvin 328, which was analyzed for at the Ciba-Geigy Superfund Site in Toms River, N.J.

The following core sections from the sixteen sampling locations were analyzed:

Upstream

SD-TU7A: 0-6"
SD-00M: 0-2", 2-4", 4-6", 6-12"
SD-01R: 0-6"

Facility Reach

SD-02L: 0-6"
SD-02R: 0-2", 2-4", 4-6", 6-12"
SD-03L: 0-6"
SD-03R: 0-6"
SD-04R: 0-6"
SD-05L: 0-2", 2-4", 4-6", 6-12"
SD-06R: 0-6"
SD-07L: 0-6"
SD-08M: 0-2", 2-4", 4-6", 6-12"

Downstream

SD-10M: 0-6"
SD-13R: 0-2", 2-4", 4-6", 6-12"
SD-16M: 0-2", 2-4", 4-6", 6-12"
SD-20M: 0-6"

3.3 Field Documentation

To ensure proper record keeping, the following list of standardized forms were used in this investigation:

- *Station/sample log*—One or more station/sample log sheets were completed for each station where sediment sampling was conducted. The station name, date, gear and cast number, depth, and GPS location coordinates were recorded on each log sheet. Penetration depth, sediment type, sediment color, sediment odor, presence of any organisms, and obvious evidence of contamination (e.g., sheen, wood waste, oil droplets, sandblast grit, paint chips) were also recorded, as well as the sample type, sample identifier, and unique sample number. All station/sample logs are contained in Appendix B.
- *Chain-of-custody form*—Each sample container was recorded on a chain-of-custody form at the end of each day's sampling. The chain-of-custody form was completed in duplicate or triplicate and identified the sample collection date and time, the project, and the chief scientist. One copy of the form was placed in a waterproof bag and attached to the inside of each sample cooler. Ciba kept one copy of the form. The sample cooler was sealed with chain-of-custody tape and kept in a secure location when not in the presence of the chief scientist or assigned crew. All chain-of-custody forms and laboratory data sheets are contained in Appendix C.

4.0 SEDIMENT SAMPLING RESULTS

Vertical sampling of river sediment was completed in this investigation to observe how contaminant concentrations in the different sediment layers have changed since 1992. In each river reach, at least one sampling location was analyzed by individual layer (i.e. 0-2", 2-4", 4-6", and 6-12"). This methodology was useful in determining how surface sediment contaminant concentrations compared with concentrations in deeper sediments. In general, the results showed that the surficial sediments (0-4") in all reaches have improved when compared with the 1992 data, while the deeper sediments are relatively unchanged. Concerning Tinuvin 328 concentrations, no previous data exists for comparison purposes. This was the first time Tinuvin 328 has been analyzed for in Pawtuxet River sediment.

Sediment analyte concentrations arranged according to sampling location and river reach are presented in Tables 4-1 through 4-16.

5.0 DATA SUMMARY

Upstream Locations

Upstream analyte concentrations appeared to be very similar to the data obtained during the 1992 sampling campaign. Volatile and semi-volatile concentrations were mostly non-detect throughout the upstream reach, however the detection limits were lower than the previous campaign. Inorganic concentrations were essentially the same as the 1992 data at TU-7A, however SD-01R saw an order of magnitude increase in copper, lead, and zinc concentrations. PAH concentrations were elevated throughout the upstream reach: by several ppm at SD-01R, by about 0.5 ppm at SD-TU7A, and by 1-2 ppm in the 4-6" section of SD-00M. PCBs were mostly non-detected throughout the upstream reach, except for the presence of both PCB-1254 and PCB-1260 at SD-01R and SD-TU7A; PCB-1260 was found at SD-00M. All PCB concentrations in the upstream reach were below 0.5 ppm (all 1992 PCB values in the upstream reach were non-detect). Tinuvin 328 was found throughout the upstream reach at all sampled depths in concentrations less than 0.05 ppm.

SD-01R and SD-TU7A were both in depositional zones, characterized by their orientation in the river (near the bank) and their characteristic fine silt/sand composition. SD-00M, located mid-channel, would not be considered to be a depositional zone due to its orientation in the river and its coarser grain size.

Upper Facility Locations

Results for the upper facility showed improvement when compared with the 1992 data. Volatile and semi-volatile concentrations were mostly non-detect in SD-02L and SD-03L (comparable with 1992), while SD-03R (located in the remediated Former Cofferdam Area) saw a substantial change from hundreds of ppm of chlorobenzene and toluene down to non-detect levels. SD-02R experienced a noticeable decrease in volatile and semi-volatile concentrations in the top four inches, while the bottom eight inches showed comparable concentrations with the previous sampling campaign. The entire upper facility reach saw drastic reductions of hundreds of ppm in copper, lead, and zinc concentrations, with the rest of the inorganic analytes showing decreases as well. A hit of zinc at the 6-12" depth at SD-02R occurred, a distinct outlier when compared to the vast improvement zinc showed at lesser depths and throughout the rest of the upper facility reach. PAH concentrations improved throughout upper facility reach by about 1-2 ppm. PCB concentrations were mostly non-detect throughout the upper facility reach, however SD-03R (located in the remediated Former Cofferdam Area) saw a substantial reduction of PCB-1254 by over 200 ppm (note that all 1992 PCB values in the upper facility reach were non-detect, except for the 200 ppm value at SD-03R mentioned above). However, PCB-1248 in SD-02R was an order of magnitude higher than 1992 for all depths except 0-2". Tinuvin 328 was found to be present throughout the upper facility reach. SD-02R contained tens of ppm of Tinuvin 328 in the lower depths, but the surface concentration (0-2") was an order of magnitude lower. In all other upper facility locations, Tinuvin 328 ranged from 0.012 ppm to 0.5 ppm.

SD-02L, SD-02R, and SD-03L were all in depositional zones, characterized by their orientation in the river (near the bank) and their characteristic fine silt/sand composition. SD-03R, on the other hand, was found to have a coarser, sandy sediment composition – owing to the clean fill sand that was placed in this area during the previous remediation of the Former Cofferdam Area. SD-02R was the only upper facility location where an oily sheen and chemical odor were observed during the core extraction process.

Lower Facility Locations

The low concentrations of volatiles and semi-volatiles in the lower facility reach were unchanged from the previous sampling campaign. For inorganics in the lower facility reach, SD-04R, SD-05L, and SD-06R showed definite increases in copper, lead, and zinc concentrations, while SD-07L and SD-08M experienced reductions in these three analytes. PAH concentrations were comparable with the 1992 data throughout the lower facility reach. However, SD-07L and SD-08M both saw reductions in PAH concentrations. Concerning PCBs, SD-04R showed increased levels of 2-10 ppm in PCB-1248, PCB-1254, and PCB-1260, while the rest of the PCBs were unchanged at this location. SD-06R, SD-07L, and SD-08M showed no change in PCB concentrations when compared with the 1992 data (note that all 1992 PCB values in the lower facility reach were non-detect). Tinuvin 328 was found throughout the lower facility reach in concentrations below 0.6 ppm.

All of the lower facility sampling locations were in depositional zones, characterized by their orientation in the river (near the bank) and their characteristic fine silt/sand composition. In addition, much organic debris (i.e. leaf matter and twigs) was observed in many of the samples.

Downstream Locations

Volatile and semi-volatile concentrations were mostly all non-detect throughout the downstream reach (as in 1992), however the detection limits were lower than the previous sampling campaign. Concerning inorganic concentrations, SD-10M and SD-13R saw reductions at all depths sampled, while the other downstream locations were relatively unchanged when compared with the 1992 data. PAH concentrations in the downstream reach experienced no change when compared with the 1992 data – except for SD-13R, which did show observable decreases in PAH concentrations at all sampling depths. Concerning PCBs, non-detect concentrations were found throughout the downstream reach, with some low concentrations of PCB-1254 and PCB-1260 in the range of 0.026 ppm to 1.3 ppm (note that all 1992 PCB values in the downstream reach were non-detect). Tinuvin 328 was found throughout the downstream reach in concentrations below 0.8 ppm.

All of the downstream locations were representative of non-depositional zones, whereby the sediment grains appeared medium/large in size and were poorly sorted.

6.0 DISCUSSION AND RECOMMENDATIONS

Sediment sampling and analysis of river sediments was done as a means of evaluating projected improvements in the four reaches of the Pawtuxet River adjacent to the former Ciba facility. Over the years, industrial practices and runoff from surrounding roadways have caused chemical contaminants to become present in the sediments of the Pawtuxet River.

The data indicates that the four reaches of the Pawtuxet River adjacent to the facility have improved over the ten years since the last sediment sampling campaign was completed. In general, the top four inches of river sediment in all reaches has improved the most, while the deeper sediments showed concentrations more similar to the 1992 data. This is an expected result - due to sediments being "capped" by re-deposited upstream sediments. The deeper sediments are in fact stabilized by this process – a fact substantiated by the contaminant concentrations in the deeper sediment being unchanged from 1992.

With no known new contaminant sources to the Pawtuxet River from the former Ciba facility or from other nearby areas, Ciba concludes that river processes will continue to function as a natural cleanup tool and sediment contaminant concentrations will continue to improve over time. Ciba therefore recommends that no future monitoring of sediment contaminant concentrations in the Pawtuxet River should be necessary.

7.0 REFERENCES

Ciba-Geigy Corporation. 1996. RCRA Facility Investigation Report for the Pawtuxet River, Volume 1. March.

Ciba-Geigy Corporation. 1996. RCRA Facility Investigation Report, Volume 3, Aquatic Baseline Ecological Risk Assessment for the Ciba-Geigy Site at Cranston, Rhode Island. March.

State of Rhode Island and Providence Plantations Department of Environmental Management and Water Resources. 2000. Water Quality Regulations. June.

Woodward-Clyde Consultants. 1996. Pawtuxet River Corrective Measures Study. August.

APPENDIX

A

FIGURES

Figure 3-1

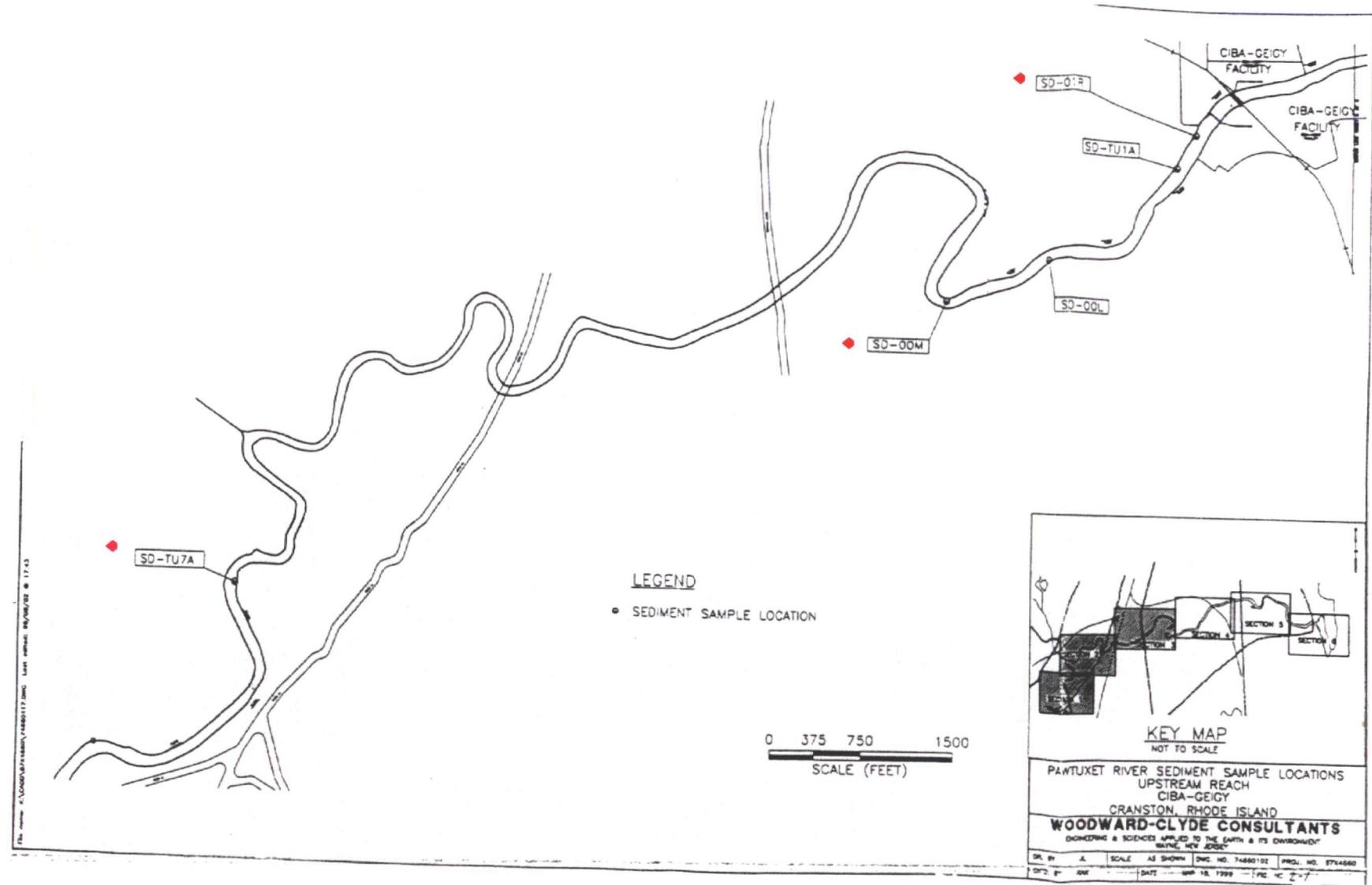


Figure 3-2

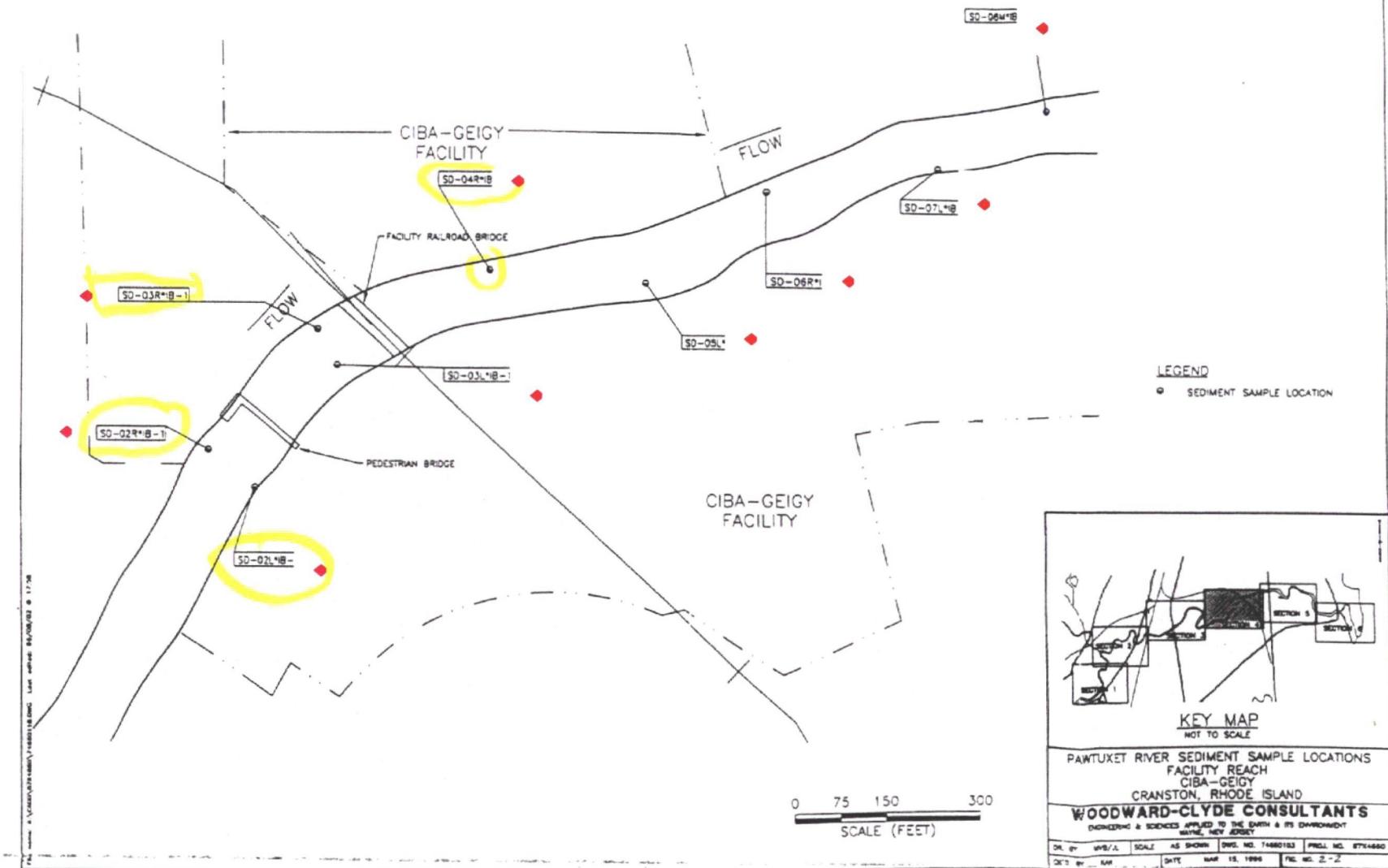
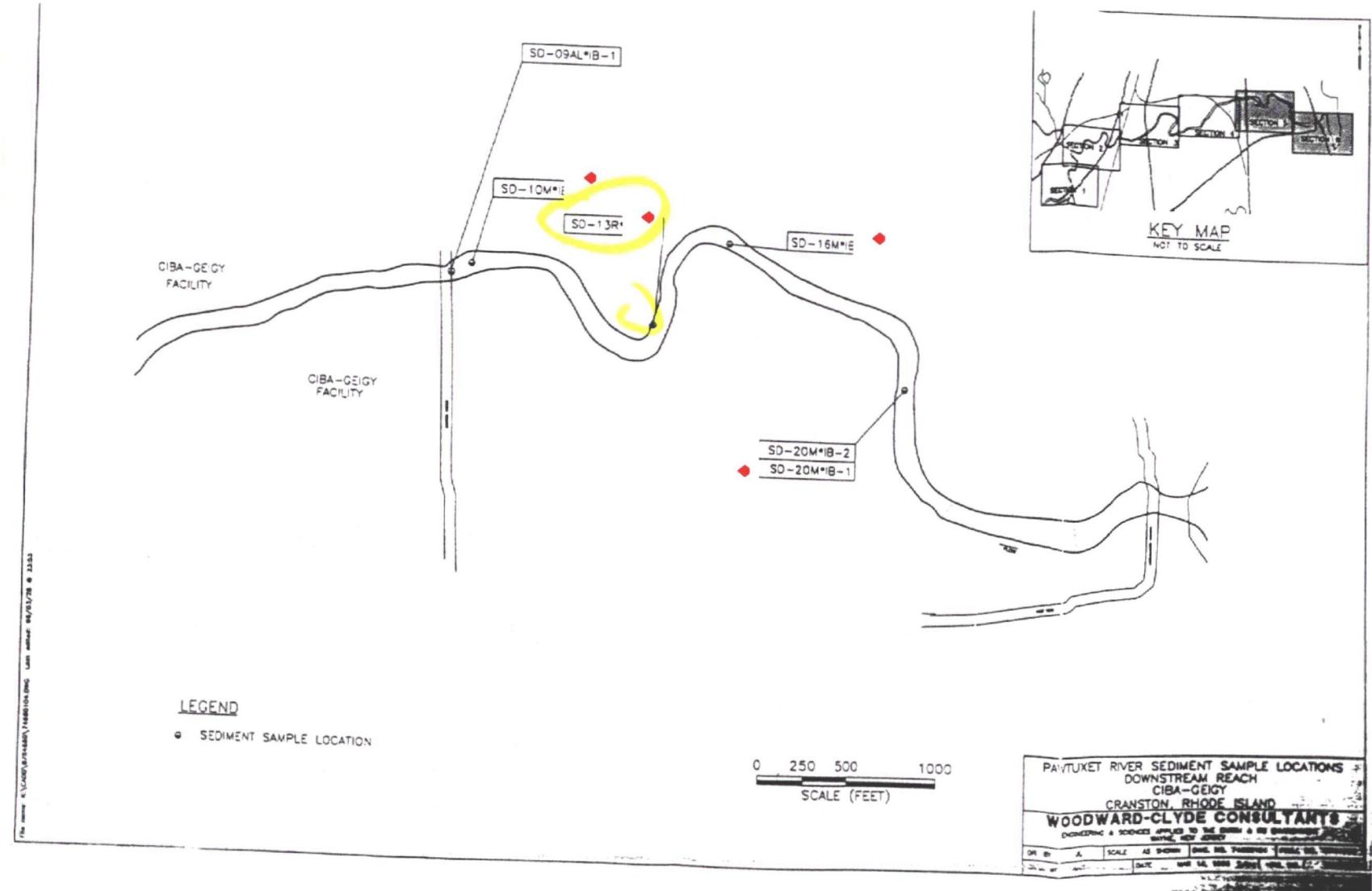


Figure 3-3



TABLES

Table 4-1

UPSTREAM LOCATIONS

SD-01R 1992 0-6 SD-01R 2002 0-6

CONSTITUENTS

Volatile Organics

CHLOROBENZENE	0.065 U	0.91
M&P-XYLENE	0.065 U	0.002 U
O-XYLENE	0.065 U	0.027
TOLUENE	0.065 U	0.016

Semi-Volatile Organics

1,2-DICHLOROBENZENE	0.6 U	0.380 U
4-CHLOROANILINE	0.6 U	0.380 U
TINUVIN 328	NA	0.03035 U

Inorganics

CADMIUM	0.235 U	5.7
COPPER	27.3 J	187
CYANIDE	0.175 U	0.385 U
LEAD	11 J	313
THALLIUM	0.325	2.2 U
ZINC	28 J	616

PAHs

2-METHYLNAPHTHALENE	0.6 U	0.380 U
ANTHRACENE	0.14 J	0.79
BENZO(A)ANTHRACENE	0.51 J	3
BENZO(A)PYRENE	0.43 J	3.7
BENZO(B)FLUORANTHENE	0.74 J	5.9
BENZO(G,H,I)PERYLENE	0.39 J	3.3
BENZO(K)FLUORANTHENE	0.83 J	2.1
CHRYSENE	0.61 J	5
DIBENZ(A,H)ANTHRACENE	0.19 J	0.88
FLUORANTHENE	1.7	7.9
INDENO(1,2,3-CD)PYRENE	0.32 J	3.4
PYRENE	0.61 J	7.6

PCBs

PCB-1221	0.0125 U	0.0075 U
PCB-1232	0.0125 U	0.0075 U
PCB-1242	0.0065 U	0.0075 U
PCB-1248	0.0065 U	0.0075 U
PCB-1254	0.0125 U	0.25
PCB-1260	0.0125 U	0.13

All results are in mg/kg (ppm) J = estimated R = rejected NA = Not Analyzed
 U = non-detected (non-detected results are listed at one half the reported detection limit)

Table 4-2

UPSTREAM LOCATIONS

CONSTITUENTS	SD-TU7A 1992 0-6	SD-TU7A 2002 0-6
Volatile Organics		
CHLOROBENZENE	0.00385 U	0.002
M&P-XYLENE	0.00385 U	0.0005 U
O-XYLENE	0.00385 U	0.0005 U
TOLUENE	0.00385 U	0.0005 U
Semi-Volatile Organics		
1,2-DICHLOROBENZENE	0.255 U	0.024 U
4-CHLOROANILINE	0.33 J	0.08
TINUVIN 328	NA	0.01175 U
Inorganics		
CADMIUM	1.2	2.1
COPPER	50.5 J	38
CYANIDE	R	0.13 U
LEAD	50.5	40.1
THALLIUM	0.75 U	0.7 U
ZINC	63.1	90.8
PAHs		
2-METHYLNAPHTHALENE	0.255 U	0.024 U
ANTHRACENE	0.05 J	0.11
BENZO(A)ANTHRACENE	0.2 J	0.47
BENZO(A)PYRENE	0.22 J	0.52
BENZO(B)FLUORANTHENE	0.36	0.81
BENZO(G,H,I)PERYLENE	0.15 J	0.44
BENZO(K)FLUORANTHENE	0.14 J	0.36
CHRYSENE	0.27 J	0.71
DIBENZ(A,H)ANTHRACENE	0.155 U	0.11
FLUORANTHENE	0.58	1
INDENO(1,2,3-CD)PYRENE	0.15 J	0.43
PYRENE	0.56	0.86
PCBs		
PCB-1221	0.05 U	0.0024 U
PCB-1232	0.0255 U	0.0024 U
PCB-1242	0.0255 U	0.0024 U
PCB-1248	0.0255 U	0.0024 U
PCB-1254	0.0255 U	0.026
PCB-1260	0.0255 U	0.039

All results are in mg/kg (ppm) J = estimated R = rejected NA = Not Analyzed
 U = non-detected (non-detected results are listed at one half the reported detection limit)

Table 4-3

UPSTREAM LOCATIONS

CONSTITUENTS	<u>SD-00M 1992 0-6</u>	<u>SD-00M 2002 0-2</u>	<u>SD-00M 2002 2-4</u>	<u>SD-00M 2002 4-6</u>	<u>SD-00M 2002 6-12</u>
Volatile Organics					
CHLOROBENZENE	0.06 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
M&P-XYLENE	0.06 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
O-XYLENE	0.06 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
TOLUENE	0.06 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Semi-Volatile Organics					
1,2-DICHLOROBENZENE	0.6 U	0.095 U	0.095 U	0.095 U	0.09 U
4-CHLOROANILINE	0.6 U	0.095 U	0.095 U	0.095 U	0.09 U
TINUVIN 328	NA	0.0433	0.00875 U	0.0454	0.0087 U
Inorganics					
CADMIUM	0.25 U	0.0495 U	0.14	0.11	0.048 U
COPPER	9.0 J	11.2	15.5	34.2	15.5
CYANIDE	0.29 U	0.1 U	0.1 U	0.095 U	0.095 U
LEAD	19.7	14.5	19.6	117	15.9
THALLIUM	0.235 U	0.55 U	0.55 U	0.55 U	0.5 U
ZINC	35.2 J	35	48.3	40.1	52.5
PAHs					
2-METHYLNAPHTHALENE	0.6 U	0.095 U	0.095 U	0.095 U	0.09 U
ANTHRACENE	0.11 J	0.28	0.095 U	1.2	0.09 U
BENZO(A)ANTHRACENE	0.28 J	0.93	0.3	2.4	0.39
BENZO(A)PYRENE	0.6 U	0.89	0.28	2	0.33
BENZO(B)FLUORANTHENE	0.41 J	1.1	0.43	2.5	0.45
BENZO(G,H,I)PERYLENE	0.6 U	0.66	0.22	1.4	0.22
BENZO(K)FLUORANTHENE	0.42 J	0.58	0.095 U	1.1	0.09 U
CHRYSENE	0.34 J	1.1	0.41	2.5	0.43
DIBENZ(A,H)ANTHRACENE	0.6 U	0.2	0.095 U	0.4	0.09 U
FLUORANTHENE	0.64 J	1.8	0.79	6.1	0.95
INDENO(1,2,3-CD)PYRENE	0.6 U	0.65	0.2	1.4	0.23
PYRENE	0.76 J	1.5	0.62	5.3	0.9
PCBs					
PCB-1221	0.0115 U	0.0018 U	0.009 U	0.018 U	0.00175 U
PCB-1232	0.0115 U	0.0018 U	0.009 U	0.018 U	0.00175 U
PCB-1242	0.0055 U	0.0018 U	0.009 U	0.018 U	0.00175 U
PCB-1248	0.0055 U	0.0018 U	0.009 U	0.018 U	0.00175 U
PCB-1254	0.0115 U	0.0018 U	0.009 U	0.018 U	0.00175 U
PCB-1260	0.0115 U	0.015	0.35	0.061	0.0069

All results are in mg/kg (ppm)

J = estimated

R = rejected

NA = Not Analyzed

U = non-detected (non-detected results are listed at one half the reported detection limit).

Table 4-4

UPPER FACILITY LOCATIONS

CONSTITUENTS	<u>SD-02L 1992 0-6</u>	<u>SD-02L 2002 0-6</u>
<u>Volatile Organics</u>		
CHLOROBENZENE	0.063 J	0.002 U
M&P-XYLENE	0.155 U	0.002 U
O-XYLENE	0.155 U	0.002 U
TOLUENE	0.076 J	0.002 U
<u>Semi-Volatile Organics</u>		
1,2-DICHLOROBENZENE	0.22 J	0.031 U
4-CHLOROANILINE	1.3 U	0.065
TINUVIN 328	NA	0.5119
<u>Inorganics</u>		
CADMIUM	5.3 J	3.4
COPPER	516 J	301
CYANIDE	25.6	0.56
LEAD	375 J	135
THALLIUM	1.16	0.9 U
ZINC	1070 J	705
<u>PAHs</u>		
2-METHYLNAPHTHALENE	0.44 J	0.031 U
ANTHRACENE	0.53 J	0.48
BENZO(A)ANTHRACENE	3.6	1.8
BENZO(A)PYRENE	3.5	2
BENZO(B)FLUORANTHENE	6.9	3
BENZO(G,H,I)PERYLENE	3.2	1.5
BENZO(K)FLUORANTHENE	7.7	1.5
CHRYSENE	6.1	2.2
DIBENZ(A,H)ANTHRACENE	1.3 J	0.46
FLUORANTHENE	14	3.6
INDENO(1,2,3-CD)PYRENE	2.9	1.5
PYRENE	5.3	4.1
<u>PCBs</u>		
PCB-1221	2.65 U	0.031 U
PCB-1232	2.65 U	0.031 U
PCB-1242	1.35 U	0.031 U
PCB-1248	1.35 U	0.031 U
PCB-1254	2.65 U	0.21
PCB-1260	2.65 U	0.031 U

All results are in mg/kg (ppm) J = estimated R = rejected NA = Not Analyzed
 U = non-detected (non-detected results are listed at one half the reported detection limit)

Table 4-5

UPPER FACILITY LOCATIONS

CONSTITUENTS	<u>SD-02R 1992 0-6</u>	<u>SD-02R 2002 0-2</u>	<u>SD-02R 2002 2-4</u>	<u>SD-02R 2002 4-6</u>	<u>SD-02R 2002 6-12</u>
<u>Volatile Organics</u>					
CHLOROBENZENE	<u>26</u>	<u>6.3</u>	<u>6.7</u>	<u>130</u>	<u>360</u>
M&P-XYLENE	<u>1 J</u>	0.033	0.024	1	3.5
O-XYLENE	<u>0.23 J</u>	0.039	0.034	0.51	1.5
TOLUENE	<u>0.87 J</u>	0.042	0.036	1.2	14
<u>Semi-Volatile Organics</u>					
1,2-DICHLOROBENZENE	<u>4.6</u>	0.25	2	5.7	<u>45</u>
4-CHLOROANILINE	<u>1.5 U</u>	0.51	5	7.4	<u>40</u>
TINUVIN 328	<u>NA</u>	4.931	31.1374	30.0525	61.6507
<u>Inorganics</u>					
CADMUM	<u>22 J</u>	3.2	4.5	6.7	11.2
COPPER	<u>947 J</u>	113	172	279	468
CYANIDE	<u>13.2</u>	0.175 U	0.18 U	0.38	0.99
LEAD	<u>594 J</u>	108	161	204	393
THALLIUM	<u>0.974</u>	1.0 U	1.0 U	0.95	1.1 U
ZINC	<u>1460 J</u>	469	789	1.45 U	5,000
<u>PAHs</u>					
2-METHYLNAPHTHALENE	<u>2.1 J</u>	0.083	0.26	0.57	2.8
ANTHRACENE	<u>0.93 J</u>	0.4	0.53	1.1	0.88
BENZO(A)ANTHRACENE	<u>3.2</u>	1.4	1.6	2.3	2.4
BENZO(A)PYRENE	<u>3.6</u>	1.5	1.7	2	2.6
BENZO(B)FLUORANTHENE	<u>6.5</u>	1.2	2.7	3	4.1
BENZO(G,H,I)PERYLENE	<u>3.3</u>	1.4	1.4	1.5	2.1
BENZO(K)FLUORANTHENE	<u>7.3</u>	1.2	0.97	1.4	1.5
CHRYSENE	<u>5.2</u>	2.2	2.5	2.9	3.5
DIBENZ(A,H)ANTHRACENE	<u>1.5 J</u>	0.42	0.44	0.47	0.385 U
FLUORANTHENE	<u>11</u>	3	3.5	4.8	5.5
INDENO(1,2,3-CD)PYRENE	<u>3</u>	1.4	1.5	1.5	2.2
PYRENE	<u>3.9</u>	2.9	3.3	4.5	4.8
<u>PCBs</u>					
PCB-1221	<u>3.05 U</u>	0.065 U	1.7 U	0.33 U	1.9 U
PCB-1232	<u>3.05 U</u>	0.065 U	1.7 U	0.33 U	1.9 U
PCB-1242	<u>1.55 U</u>	0.065 U	1.7 U	0.33 U	1.9 U
PCB-1248	<u>1.55 U</u>	<u>5.6</u>	<u>96</u>	<u>43</u>	<u>170</u>
PCB-1254	<u>3.05 U</u>	3.3	1.7 U	16	43
PCB-1260	<u>3.05 U</u>	0.065 U	1.7 U	0.33 U	1.9 U

All results are in mg/kg (ppm)

J = estimated

R = rejected

NA = Not Analyzed

U = non-detected (non-detected results are listed at one half the reported detection limit)

Table 4-6

UPPER FACILITY LOCATIONS

CONSTITUENTS	<u>SD-03L 1992 0-6</u>	<u>SD-03L 2002 0-6</u>
<u>Volatile Organics</u>		
CHLOROBENZENE	0.078 J	0.008
M&P-XYLENE	0.15 U	0.0005 U
O-XYLENE	0.15 U	0.0005 U
TOLUENE	0.1 J	0.0005 U
<u>Semi-Volatile Organics</u>		
1,2-DICHLOROBENZENE	1.45 U	0.023 U
4-CHLOROANILINE	1.45 U	0.023 U
TINUVIN 328	NA	0.01215 U
<u>Inorganics</u>		
CADMIUM	6.5 J	0.31
COPPER	98.6 J	9.6
CYANIDE	2.8	0.25 U
LEAD	100 J	21.4
THALLIUM	0.936	1.4 U
ZINC	221 J	44.2
<u>PAHs</u>		
2-METHYLNAPHTHALENE	1.45 U	0.023 U
ANTHRACENE	0.29 J	0.079
BENZO(A)ANTHRACENE	1.6 J	0.25
BENZO(A)PYRENE	1.4 J	0.47
BENZO(B)FLUORANTHENE	2.8 J	0.39
BENZO(G,H,I)PERYLENE	1.7 J	0.2
BENZO(K)FLUORANTHENE	3.1	0.15
CHRYSENE	2.2 J	0.35
DIBENZ(A,H)ANTHRACENE	0.62 J	0.07
FLUORANTHENE	5.3	0.5
INDENO(1,2,3-CD)PYRENE	1.4 J	0.21
PYRENE	1.9 J	0.47
<u>PCBs</u>		
PCB-1221	0.03 U	0.0023 U
PCB-1232	0.03 U	0.0023 U
PCB-1242	0.015 U	0.0023 U
PCB-1248	0.015 U	0.0023 U
PCB-1254	0.03 U	0.024
PCB-1260	0.03 U	0.0083

All results are in mg/kg (ppm) J = estimated R = rejected NA = Not Analyzed
 U = non-detected (non-detected results are listed at one half the reported detection limit)

Table 4-7**UPPER FACILITY LOCATIONS**

CONSTITUENTS	<u>SD-03R 1992 0-6</u>	<u>SD-03R 2002 0-6</u>
Volatile Organics		
CHLOROBENZENE	360 J	0.0005 U
M&P-XYLENE	8.2 J	0.0005 U
O-XYLENE	7 U	0.0005 U
TOLUENE	470 J	0.0005 U
Semi-Volatile Organics		
1,2-DICHLOROBENZENE	R	0.019 U
4-CHLOROANILINE	32 J	0.019 U
TINUVIN 328	NA	0.289
Inorganics		
CADMIUM	11 J	0.05 U
COPPER	306 J	4.5
CYANIDE	3	0.105 U
LEAD	223 J	6.4
THALLIUM	0.802	0.55 U
ZINC	13900 J	33.3
PAHs		
2-METHYLNAPHTHALENE	R	0.019 U
ANTHRACENE	R	0.019 U
BENZO(A)ANTHRACENE	R	0.019 U
BENZO(A)PYRENE	R	0.019 U
BENZO(B)FLUORANTHENE	R	0.054
BENZO(G,H,I)PERYLENE	R	0.019 U
BENZO(K)FLUORANTHENE	R	0.019 U
CHRYSENE	R	0.045
DIBENZ(A,H)ANTHRACENE	R	0.019 U
FLUORANTHENE	R	0.049
INDENO(1,2,3-CD)PYRENE	R	0.019 U
PYRENE	R	0.052
PCBs		
PCB-1221	27 U	0.0019 U
PCB-1232	27 U	0.0019 U
PCB-1242	13.5 U	0.0019 U
PCB-1248	13.5 U	0.0019 U
PCB-1254	210	0.025
PCB-1260	27 U	0.0056

All results are in mg/kg (ppm) J = estimated R = rejected NA = Not Analyzed
 U = non-detected (non-detected results are listed at one half the reported detection limit)

Table 4-8

LOWER FACILITY LOCATIONS

CONSTITUENTS	<u>SD-04R 1992 0-6</u>	<u>SD-04R 2002 0-6</u>
<u>Volatile Organics</u>		
CHLOROBENZENE	0.17	0.66
M&P-XYLENE	0.075 U	0.19 U
O-XYLENE	0.075 U	0.19 U
TOLUENE	0.58	0.19 U
<u>Semi-Volatile Organics</u>		
1,2-DICHLOROBENZENE	0.7 U	0.5 U
4-CHLOROANILINE	0.7 U	1
TINUVIN 328	NA	0.023 U
<u>Inorganics</u>		
CADMIUM	0.94 J	8.5
COPPER	81.5 J	444
CYANIDE	0.2 U	0.89
LEAD	79.3 J	270
THALLIUM	0.463	1.5 U
ZINC	225 J	1,170
<u>PAHs</u>		
2-METHYLNAPHTHALENE	0.7 U	0.5 U
ANTHRACENE	0.14 J	1
BENZO(A)ANTHRACENE	0.8 J	3
BENZO(A)PYRENE	0.85 J	3.4
BENZO(B)FLUORANTHENE	1.4	5.3
BENZO(G,H,I)PERYLENE	0.84 J	2.9
BENZO(K)FLUORANTHENE	1.6	2.3
CHRYSENE	1.1 J	4.7
DIBENZ(A,H)ANTHRACENE	0.14 J	0.5 U
FLUORANTHENE	3.1	7
INDENO(1,2,3-CD)PYRENE	0.7 J	2.8
PYRENE	1 J	6.2
<u>PCBs</u>		
PCB-1221	0.15 U	0.1 U
PCB-1232	0.15 U	0.1 U
PCB-1242	0.075 U	0.1 U
PCB-1248	0.075 U	9.8
PCB-1254	0.15 U	5.8
PCB-1260	0.15 U	1.9

All results are in mg/kg (ppm)

J = estimated

R = rejected

NA = Not Analyzed

U = non-detected (non-detected results are listed at one half the reported detection limit)

Table 4-9

LOWER FACILITY LOCATIONS

CONSTITUENTS	<u>SD-05L 1992 0-6</u>	<u>SD-05L 2002 0-2</u>	<u>SD-05L 2002 2-4</u>	<u>SD-05L 2002 4-6</u>	<u>SD-05L 2002 6-12</u>
Volatile Organics					
CHLOROBENZENE	0.065 U	0.047	0.032	0.023	0.015
M&P-XYLENE	0.065 U	0.001 U	0.001 U	0.001 U	0.001 U
O-XYLENE	0.065 U	0.003	0.001 U	0.002	0.002
TOLUENE	0.035 J	0.006	0.001 U	0.001 U	0.002
Semi-Volatile Organics					
1,2-DICHLOROBENZENE	0.6 U	0.033 U	0.0285 U	0.026 U	0.0255 U
4-CHLOROANILINE	0.6 U	0.69	0.53	1.1	0.27
TINUVIN 328	NA	0.6051	0.01395 U	0.2723	0.1081
Inorganics					
CADMIUM	0.22 U	1.5	1.8	2.1	2.2
COPPER	15.2 J	80	61.5	75.6	56.6
CYANIDE	0.265 U	0.175 U	0.155 U	1.03	0.135 U
LEAD	24.7	65	72.8	78.1	78.3
THALLIUM	0.235 U	0.95 U	0.8 U	0.75 U	0.75 U
ZINC	47 J	187	147	186	150
PAHs					
2-METHYLNAPHTHALENE	0.6 U	0.033 U	0.0285 U	0.077	0.33
ANTHRACENE	0.048 J	0.49	0.35	0.41	5.8
BENZO(A)ANTHRACENE	0.32 J	1.2	0.96	0.99	8.6
BENZO(A)PYRENE	0.6 U	1.3	1	0.98	6.6
BENZO(B)FLUORANTHENE	0.53 J	1.9	1.5	1.4	8.4
BENZO(G,H,I)PERYLENE	0.6 U	0.89	0.77	0.74	3.6
BENZO(K)FLUORANTHENE	0.55 J	0.72	0.58	0.63	3.8
CHRYSENE	0.37 J	1.5	1.4	1.3	7.9
DIBENZ(A,H)ANTHRACENE	0.6 U	0.27	0.21	0.23	1.3
FLUORANTHENE	0.6 J	2.6	2	2	18
INDENO(1,2,3-CD)PYRENE	0.6 U	0.91	0.73	0.71	4.2
PYRENE	0.67 J	2.8	2.3	2.5	12
PCBs					
PCB-1221	0.06 U	0.0165 U	0.014 U	0.013 U	0.0125 U
PCB-1232	0.06 U	0.0165 U	0.014 U	0.013 U	0.0125 U
PCB-1242	0.03 U	0.0165 U	0.014 U	0.013 U	0.0125 U
PCB-1248	0.03 U	0.83	0.29	0.62	0.0125 U
PCB-1254	0.06 U	0.63	0.24	0.45	0.23
PCB-1260	0.06 U	0.22	0.17	0.21	0.17

All results are in mg/kg (ppm)

J = estimated

R= rejected

NA = Not Analyzed

U = non-detected (non-detected results are listed at one half the reported detection limit)

Table 4-10

LOWER FACILITY LOCATIONS

CONSTITUENTS	<u>SD-06R 1992 0-6</u>	<u>SD-06R 2002 0-6</u>
<u>Volatile Organics</u>		
CHLOROBENZENE	0.085 U	0.005
M&P-XYLENE	0.085 U	0.001 U
O-XYLENE	0.085 U	0.001 U
TOLUENE	R	0.001 U
<u>Semi-Volatile Organics</u>		
1,2-DICHLOROBENZENE	0.8 U	0.035 U
4-CHLOROANILINE	0.8 U	1.1
TINUVIN 328	NA	0.096
<u>Inorganics</u>		
CADMIUM	2	5
COPPER	21.3 J	124
CYANIDE	0.39 U	0.19 U
LEAD	28.4	127
THALLIUM	0.3 U	1.0 U
ZINC	63.1 J	286
<u>PAHs</u>		
2-METHYLNAPHTHALENE	0.8 U	0.035 U
ANTHRACENE	0.085 J	0.38
BENZO(A)ANTHRACENE	0.96 J	1.4
BENZO(A)PYRENE	0.79 J	1.8
BENZO(B)FLUORANTHENE	2.1	2.8
BENZO(G,H,I)PERYLENE	0.8 U	1.4
BENZO(K)FLUORANTHENE	2.2	1.2
CHRYSENE	1.1 J	2.2
DIBENZ(A,H)ANTHRACENE	0.8 U	0.42
FLUORANTHENE	1.6	2.9
INDENO(1,2,3-CD)PYRENE	1 J	1.4
PYRENE	1.7	3.7
<u>PCBs</u>		
PCB-1221	0.32 U	0.0175 U
PCB-1232	0.32 U	0.0175 U
PCB-1242	0.16 U	0.0175 U
PCB-1248	0.16 U	0.63
PCB-1254	0.32 U	0.75
PCB-1260	0.32 U	0.23

All results are in mg/kg (ppm) J = estimated R = rejected NA = Not Analyzed
 U = non-detected (non-detected results are listed at one half the reported detection limit)

Table 4-11

LOWER FACILITY LOCATIONS

CONSTITUENTS	<u>SD-07L 1992 0-6</u>	<u>SD-07L 2002 0-6</u>
<u>Volatile Organics</u>		
CHLOROBENZENE	0.145 U	0.003
M&P-XYLENE	0.145 U	0.001 U
O-XYLENE	0.145 U	0.001 U
TOLUENE	0.145 U	0.001 U
<u>Semi-Volatile Organics</u>		
1,2-DICHLOROBENZENE	0.2 J	0.032 U
4-CHLOROANILINE	1.45 U	0.22
TINUVIN 328	NA	0.2566
<u>Inorganics</u>		
CADMIUM	13.5 J	4
COPPER	226 J	68.1
CYANIDE	1.3	0.17 U
LEAD	200 J	71.5
THALLIUM	1.27	0.9 U
ZINC	370 J	184
<u>PAHs</u>		
2-METHYLNAPHTHALENE	1.45 U	0.032 U
ANTHRACENE	0.33 J	0.2
BENZO(A)ANTHRACENE	2.1 J	0.79
BENZO(A)PYRENE	2.2 J	0.95
BENZO(B)FLUORANTHENE	4.6	1.5
BENZO(G,H,I)PERYLENE	2.2 J	0.72
BENZO(K)FLUORANTHENE	5.1	0.68
CHRYSENE	3.4	1.3
DIBENZ(A,H)ANTHRACENE	0.34 J	0.22
FLUORANTHENE	8.2	1.7
INDENO(1,2,3-CD)PYRENE	2 J	0.78
PYRENE	2.6 J	2
<u>PCBs</u>		
PCB-1221	0.0285 U	0.0032 U
PCB-1232	0.0285 U	0.0032 U
PCB-1242	0.014 U	0.0032 U
PCB-1248	0.014 U	0.0032 U
PCB-1254	0.0285 U	0.15
PCB-1260	0.0285 U	0.074

All results are in mg/kg (ppm) J = estimated R = rejected NA = Not Analyzed
 U = non-detected (non-detected results are listed at one half the reported detection limit)

Table 4-12

LOWER FACILITY LOCATIONS

CONSTITUENTS	<u>SD-08M 1992 0-6</u>	<u>SD-08M 2002 0-2</u>	<u>SD-08M 2002 2-4</u>	<u>SD-08M 2002 4-6</u>	<u>SD-08M 2002 6-12</u>
<u>Volatile Organics</u>					
CHLOROBENZENE	0.065 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
M&P-XYLENE	0.065 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
O-XYLENE	0.065 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
TOLUENE	0.065 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
<u>Semi-Volatile Organics</u>					
1,2-DICHLOROBENZENE	0.6 U	0.0185 U	0.0175 U	0.0175 U	0.0175 U
4-CHLOROANILINE	0.6 U	0.0185 U	0.0175 U	0.0175 U	0.0175 U
TINUVIN 328	NA	0.00825 U	0.0084 U	0.00855 U	0.0085 U
<u>Inorganics</u>					
CADMIUM	0.275 U	0.049 U	0.048 U	0.0475 U	0.047 U
COPPER	6.4 U	3.8	2	4.4	2.2
CYANIDE	0.155 U	0.1 U	0.09 U	0.095 U	0.095 U
LEAD	16.5 J	4.9	3.5	4.8	3.7
THALLIUM	0.285 U	0.55 U	0.5 U	0.5 U	0.5 U
ZINC	43.7 J	26.3	27	27.3	22.5
<u>PAHs</u>					
2-METHYLNAPHTHALENE	0.6 U	0.0185 U	0.0175 U	0.0175 U	0.0175 U
ANTHRACENE	0.14 J	0.0185 U	0.0175 U	0.0175 U	0.0175 U
BENZO(A)ANTHRACENE	0.42 J	0.051	0.0175 U	0.0175 U	0.0175 U
BENZO(A)PYRENE	0.35 J	0.068	0.0175 U	0.0175 U	0.0175 U
BENZO(B)FLUORANTHENE	0.32 J	0.12	0.0175 U	0.0175 U	0.0175 U
BENZO(G,H,I)PERYLENE	0.32 J	0.058	0.0175 U	0.0175 U	0.0175 U
BENZO(K)FLUORANTHENE	0.36 J	0.047	0.0175 U	0.0175 U	0.0175 U
CHRYSENE	0.44 J	0.082	0.0175 U	0.0175 U	0.0175 U
DIBENZ(A,H)ANTHRACENE	0.6 U	0.0185 U	0.0175 U	0.0175 U	0.0175 U
FLUORANTHENE	1.2	0.12	0.067	0.0175 U	0.0175 U
INDENO(1,2,3-CD)PYRENE	0.28 J	0.053	0.0175 U	0.0175 U	0.0175 U
PYRENE	0.43 J	0.14	0.072	0.0175 U	0.0175 U
<u>PCBs</u>					
PCB-1221	0.0125 U	0.00185 U	0.00175 U	0.00175 U	0.00175 U
PCB-1232	0.0125 U	0.00185 U	0.00175 U	0.00175 U	0.00175 U
PCB-1242	0.0065 U	0.00185 U	0.00175 U	0.00175 U	0.00175 U
PCB-1248	0.0065 U	0.00185 U	0.00175 U	0.00175 U	0.00175 U
PCB-1254	0.0125 U	0.00185 U	0.00175 U	0.00175 U	0.00175 U
PCB-1260	0.0125 U	0.00185 U	0.00175 U	0.00175 U	0.00175 U

All results are in mg/kg (ppm)

J = estimated

R = rejected

NA = Not Analyzed

U = non-detected (non-detected results are listed at one half the reported detection limit)

Table 4-13

DOWNSTREAM LOCATIONS

CONSTITUENTS	<u>SD-10M 1992 0-6</u>	<u>SD-10M 2002 0-6</u>
<u>Volatile Organics</u>		
CHLOROBENZENE	0.07 U	0.0005 U
M&P-XYLENE	0.07 U	0.0005 U
O-XYLENE	0.07 U	0.0005 U
TOLUENE	0.07 U	0.0005 U
<u>Semi-Volatile Organics</u>		
1,2-DICHLOROBENZENE	0.65 U	0.019 U
4-CHLOROANILINE	0.65 U	0.019 U
TINUVIN 328	NA	0.048
<u>Inorganics</u>		
CADMIUM	1.6	0.05 U
COPPER	21.5 J	9.9
CYANIDE	0.305 U	0.1 U
LEAD	18.5	10.2
THALLIUM	0.27 U	0.55 U
ZINC	58.4 J	33.5
<u>PAHs</u>		
2-METHYLNAPHTHALENE	0.65 U	0.019 U
ANTHRACENE	0.16 J	0.23
BENZO(A)ANTHRACENE	0.67 J	0.58
BENZO(A)PYRENE	0.56 J	0.56
BENZO(B)FLUORANTHENE	1.1 J	0.64
BENZO(G,H,I)PERYLENE	0.65 U	0.44
BENZO(K)FLUORANTHENE	1.2 J	0.3
CHRYSENE	0.79 J	0.64
DIBENZ(A,H)ANTHRACENE	0.65 U	0.13
FLUORANTHENE	1.3	1
INDENO(1,2,3-CD)PYRENE	0.65 U	0.46
PYRENE	1.5	1.2
<u>PCBs</u>		
PCB-1221	0.265 U	0.0019 U
PCB-1232	0.265 U	0.0019 U
PCB-1242	0.135 U	0.0019 U
PCB-1248	0.135 U	0.0019 U
PCB-1254	0.265 U	0.15
PCB-1260	0.265 U	0.0019 U

All results are in mg/kg (ppm) J = estimated R = rejected NA = Not Analyzed
 U = non-detected (non-detected results are listed at one half the reported detection limit)

Table 4-14

DOWNSTREAM LOCATIONS

CONSTITUENTS	<u>SD-13R 1992 0-6</u>	<u>SD-13R 2002 0-2</u>	<u>SD-13R 2002 2-4</u>	<u>SD-13R 2002 4-6</u>	<u>SD-13R 2002 6-12</u>
Volatile Organics					
CHLOROBENZENE	0.072 J	0.0005 U	0.0005 U	0.0005 U	0.0005 U
M&P-XYLENE	0.09 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
O-XYLENE	0.09 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
TOLUENE	0.14 J	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Semi-Volatile Organics					
1,2-DICHLOROBENZENE	0.85 U	0.0195 U	0.019 U	0.0195 U	0.0195 U
4-CHLOROANILINE	0.85 U	0.054	0.019 U	0.0195 U	0.0195 U
TINUVIN 328	NA	0.2021	0.1414	0.0628	0.0975
Inorganics					
CADMIUM	6.5 J	0.3	0.16	0.18	0.39
COPPER	117 J	20.8	11.3	10.7	12.1
CYANIDE	0.195 U	0.105 U	0.1 U	0.1 U	0.1 U
LEAD	84.9 J	14.8	10.9	24.4	11.9
THALLIUM	0.578	0.55 U	0.55 U	0.55 U	0.6 U
ZINC	195 J	52.3	30.1	33.3	35.1
PAHs					
2-METHYLNAPHTHALENE	0.85 U	0.0195 U	0.019 U	0.0195 U	0.0195 U
ANTHRACENE	0.2 J	0.098	0.067	0.056	0.051
BENZO(A)ANTHRACENE	1 J	0.32	0.27	0.2	0.22
BENZO(A)PYRENE	1 J	0.35	0.29	0.21	0.23
BENZO(B)FLUORANTHENE	1.8	0.46	0.38	0.29	0.3
BENZO(G,H,I)PERYLENE	0.95 J	0.27	0.21	0.15	0.18
BENZO(K)FLUORANTHENE	2.1	0.2	0.16	0.11	0.11
CHRYSENE	1.4 J	0.39	0.32	0.25	0.22
DIBENZ(A,H)ANTHRACENE	0.85 U	0.063	0.053	0.045	0.052
FLUORANTHENE	3.6	0.64	0.49	0.37	0.4
INDENO(1,2,3-CD)PYRENE	0.83 J	0.26	0.2	0.17	0.18
PYRENE	1.2 J	0.7	0.57	0.43	0.42
PCBs					
PCB-1221	0.0175 U	0.00195 U	0.0019 U	0.00195 U	0.00195 U
PCB-1232	0.0175 U	0.00195 U	0.0019 U	0.00195 U	0.00195 U
PCB-1242	0.009 U	0.00195 U	0.0019 U	0.00195 U	0.00195 U
PCB-1248	0.009 U	0.00195 U	0.0019 U	0.00195 U	0.00195 U
PCB-1254	0.0175 U	0.058	0.035	0.026	0.038
PCB-1260	0.0175 U	0.00195 U	0.0019 U	0.071	0.014

All results are in mg/kg (ppm)

J = estimated

R = rejected

NA = Not Analyzed

U = non-detected (non-detected results are listed at one half the reported detection limit)

Table 4-15

DOWNSTREAM LOCATIONS

CONSTITUENTS	<u>SD-16M 1992 0-6</u>	<u>SD-16M 2002 0-2</u>	<u>SD-16M 2002 2-4</u>	<u>SD-16M 2002 4-6</u>	<u>SD-16M 2002 6-12</u>
Volatile Organics					
CHLOROBENZENE	0.065 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
M&P-XYLENE	0.065 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
O-XYLENE	0.065 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
TOLUENE	0.065 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Semi-Volatile Organics					
1,2-DICHLOROBENZENE	0.6 U	0.019 U	0.018 U	0.0175 U	0.018 U
4-CHLOROANILINE	0.6 U	0.067	0.047	0.0175 U	0.018 U
TINUVIN 328	NA	0.2445	0.776	0.3935	0.0775
Inorganics					
CADMIUM	0.255 U	0.84	0.15	0.11	0.12
COPPER	16.6 J	18.7	10.9	10.2	14.7
CYANIDE	0.155 U	0.1 U	0.095 U	0.095 U	0.095 U
LEAD	13.9 J	31.3	12.6	13.1	49.1
THALLIUM	0.442	0.55 U	0.5 U	0.5 U	0.55 U
ZINC	50.4 J	45.9	34	33.4	35.2
PAHs					
2-METHYLNAPHTHALENE	0.6 U	0.019 U	0.018 U	0.0175 U	0.018 U
ANTHRACENE	0.054 J	0.12	0.12	0.1	0.058
BENZO(A)ANTHRACENE	0.35 J	0.42	0.47	0.39	0.21
BENZO(A)PYRENE	0.31 J	0.42	0.45	0.38	0.22
BENZO(B)FLUORANTHENE	0.46 J	0.57	0.61	0.53	0.28
BENZO(G,H,I)PERYLENE	0.25 J	0.27	0.36	0.26	0.16
BENZO(K)FLUORANTHENE	0.52 J	0.25	0.24	0.21	0.11
CHRYSENE	0.41 J	0.46	0.59	0.44	0.24
DIBENZ(A,H)ANTHRACENE	0.13 J	0.092	0.11	0.085	0.046
FLUORANTHENE	1 J	0.85	0.82	0.74	0.39
INDENO(1,2,3-CD)PYRENE	0.24 J	0.31	0.38	0.29	0.14
PYRENE	0.35 J	0.87	0.83	0.75	0.42
PCBs					
PCB-1221	0.013 U	0.0019 U	0.09 U	0.00175 U	0.009 U
PCB-1232	0.013 U	0.0019 U	0.09 U	0.00175 U	0.009 U
PCB-1242	0.0065 U	0.0019 U	0.09 U	0.00175 U	0.009 U
PCB-1248	0.0065 U	0.0019 U	0.09 U	0.00175 U	0.009 U
PCB-1254	0.013 U	0.069	1.3	0.077	0.061
PCB-1260	0.013 U	0.02	0.09 U	0.026	0.039

All results are in mg/kg (ppm)

J = estimated

R = rejected

NA = Not Analyzed

U = non-detected (non-detected results are listed at one half the reported detection limit)

Table 4-16

DOWNSTREAM LOCATIONS

CONSTITUENTS	<u>SD-20M 1992 0-6</u>	<u>SD-20M 2002 0-6</u>
<u>Volatile Organics</u>		
CHLOROBENZENE	0.06 U	0.0005 U
M&P-XYLENE	0.06 U	0.0005 U
O-XYLENE	0.06 U	0.0005 U
TOLUENE	0.06 U	0.0005 U
<u>Semi-Volatile Organics</u>		
1,2-DICHLOROBENZENE	R	0.0175 U
4-CHLOROANILINE	R	0.0175 U
TINUVIN 328	NA	0.0714
<u>Inorganics</u>		
CADMIUM	0.25 U	0.1
COPPER	5.55 U	6.5
CYANIDE	0.135 U	0.095 U
LEAD	13.5 J	29.2
THALLIUM	0.21 U	0.5 U
ZINC	44.3 J	28.6
<u>PAHs</u>		
2-METHYLNAPHTHALENE	R	0.0175 U
ANTHRACENE	R	0.13
BENZO(A)ANTHRACENE	R	0.34
BENZO(A)PYRENE	R	0.33
BENZO(B)FLUORANTHENE	R	0.44
BENZO(G,H,I)PERYLENE	R	0.31
BENZO(K)FLUORANTHENE	R	0.18
CHRYSENE	0.15 J	0.35
DIBENZ(A,H)ANTHRACENE	R	0.084
FLUORANTHENE	0.32 J	0.85
INDENO(1,2,3-CD)PYRENE	R	0.31
PYRENE	0.14 J	0.82
<u>PCBs</u>		
PCB-1221	0.0115 U	0.00175 U
PCB-1232	0.0115 U	0.00175 U
PCB-1242	0.0055 U	0.00175 U
PCB-1248	0.0055 U	0.00175 U
PCB-1254	0.0115 U	0.057
PCB-1260	0.0115 U	0.00175 U

All results are in mg/kg (ppm) J = estimated R = rejected NA = Not Analyzed
 U = non-detected (non-detected results are listed at one half the reported detection limit)

APPENDIX B

STATION/SAMPLE LOGS

UPSTREAM

Project: _____
Project No: _____

Sediment Sampling Data Sheet

Sampling Station SD-01R, Date 11/15/02, Time 8:30
Location: Latitude _____, Longitude _____

Tidal Stage _____, Water Depth ~3 ft
Weather Conditions Sunny 50+, _____

Sampling Gear Core, Collected By Fm, Ry

CHARACTERISTICS OF SURFACE (FLOC) SEDIMENT:

Floc Layer Present /, Absent _____, Water Over Floc, Yes _____, No _____
Color brown, Sheen _____, Odor _____
Epibenthic Biota: Animals _____, Plants _____
Debris _____

Visual Evidence of Contamination _____

CHARACTERISTICS OF HOMOGENIZED BULK SEDIMENT:

Sediment Type sediment is a silt debris
Consistency soft, Moisture Conditions _____
Color black brown, Sheen yes, Odor yes
Structure 100% silt debris
Debris leaves, sticks
Visual Evidence of Contamination _____

WATER QUALITY

Temp.: Water _____ Air _____ D.O. _____ pH _____ Conductivity _____

Alkalinity _____ Hardness _____

Turbidity: Clear Slightly Turbid Turbid Opaque Water Color _____

Water Surface Oils: Slick Sheen Glocs Flecks None

Water Odors Normal Sewage Petroleum Chemical None Other _____

NOTES and COMMENTS:

depth of deposit is ~3 ft
little fine grain sand

Project: _____
Project No: _____

Sediment Sampling Data Sheet

Sampling Station SD-TUFA, Date 11/15/62, Time 10:30
Location: Latitude _____, Longitude _____

Tidal Stage _____, Water Depth _____
Weather Conditions Sunny _____

Sampling Gear CORE _____, Collected By "TM, RY" _____

CHARACTERISTICS OF SURFACE (FLOC) SEDIMENT:

Floc Layer Present _____, Absent _____, Water Over Floc, Yes _____, No _____

Color _____, Sheen _____, Odor _____

Epibenthic Biota: Animals _____, Plants _____

Debris _____

Visual Evidence of Contamination _____

CHARACTERISTICS OF HOMOGENIZED BULK SEDIMENT:

Sediment Type Fine Sand w/ Silt + Debris

Consistency Firm, Moisture Conditions _____

Color dark brown, Sheen N, Odor Anerobic

Structure _____

Debris leaves sticks

Visual Evidence of Contamination _____

WATER QUALITY

Temp.: Water _____ Air _____ D.O. _____ pH _____ Conductivity _____

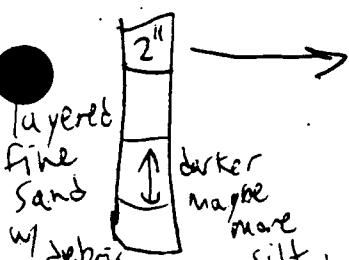
Alkalinity _____ Hardness _____

Turbidity: Clear Slightly Turbid Turbid Opaque Water Color _____

Water Surface Oils: Slick Sheen Globs Flecks None

Water Odors Normal Sewage Petroleum Chemical None Other _____

NOTES and COMMENTS:



fine sand
over layers of
fine sand & debris anerobic
Some silts

Project: _____
Project No: _____

Sediment Sampling Data Sheet

Sampling Station SD-00M, Date 11/15/02, Time 9:15
Location: Latitude _____, Longitude _____

Tidal Stage _____, Water Depth _____
Weather Conditions _____

Sampling Gear Core, Collected By TM, RY

CHARACTERISTICS OF SURFACE (FLOC) SEDIMENT:

Floc Layer Present _____, Absent _____, Water Over Floc, Yes _____, No _____

Color _____, Sheen _____, Odor _____

Epibenthic Biota: Animals _____, Plants _____

Debris _____

Visual Evidence of Contamination _____

CHARACTERISTICS OF HOMOGENIZED BULK SEDIMENT:

Sediment Type medium to coarse sand w/ debris including trash
Consistency _____, Moisture Conditions _____

Color dark brown, Sheen no, Odor no

Structure some structure w/ layers of more organics

Debris sticks, pebbles, trash

Visual Evidence of Contamination _____

WATER QUALITY

Temp.: Water _____ Air _____ D.O. _____ pH _____ Conductivity _____

Alkalinity _____ Hardness _____

Turbidity: Clear Slightly Turbid Turbid Opaque Water Color _____

Water Surface Oils: Slick Sheen Gobs Flecks None

Water Odors Normal Sewage Petroleum Chemical None Other _____

NOTES and COMMENTS:

medium sand 0-2"

coarse sand w/ medium 2-4" - some debris

coarse sand w/ debris 4-12"

STATION/SAMPLE LOGS

UPPER FACILITY

Project:

Project No:

Sediment Sampling Data Sheet

Sampling Station SD-02L, Date 11/14, Time 10:30
Location: Latitude _____, Longitude _____

Tidal Stage _____
Weather Conditions Sunny clear, Water Depth _____

Sampling Gear Cone, Collected By TM & RY

CHARACTERISTICS OF SURFACE (FLOC) SEDIMENT:

Floc Layer Present _____, Absent _____, Water Over Floc, Yes _____, No _____
Color brown w/gravel, Sheen _____, Odor _____
Epibenthic Biota: Animals _____, Plants _____
Debris gravel + some leaves + sticks
Visual Evidence of Contamination _____

CHARACTERISTICS OF HOMOGENIZED BULK SEDIMENT:

Sediment Type fine sand / silt w/ CPOM
Consistency soft, Moisture Conditions _____
Color gray brown, Sheen No, Odor no slight chemical smell
Structure cone has structure see site below
Debris CPOM w/ gravel
Visual Evidence of Contamination _____

WATER QUALITY

Temp.: Water _____ Air _____ D.O. _____ pH _____ Conductivity _____

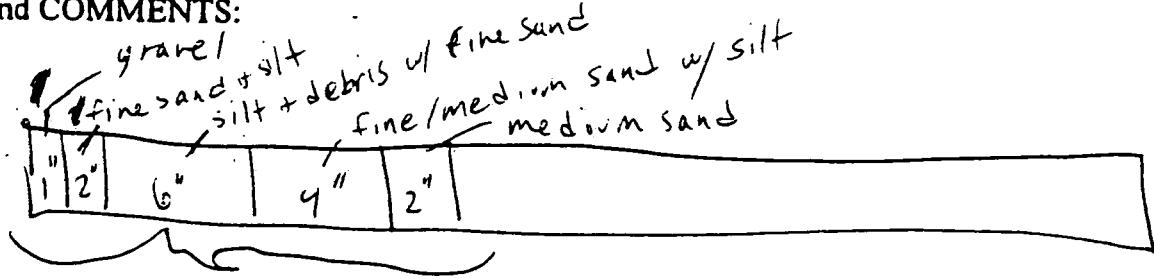
Alkalinity _____ Hardness _____

Turbidity: Clear Slightly Turbid Turbid Opaque Water Color _____

Water Surface Oils: Slick Sheen Globs Flecks None

Water Odors Normal Sewage Petroleum Chemical None Other _____

NOTES and COMMENTS:



Project: _____

Project No: _____

Sediment Sampling Data Sheet

Sampling Station SD-2R, Date 10/14, Time 10:00
Location: Latitude N 41° 45.955', Longitude W 71° 24.707'

Tidal Stage _____, Water Depth 3 ft
Weather Conditions sunny

Sampling Gear core, Collected By "

CHARACTERISTICS OF SURFACE (FLOC) SEDIMENT:
Floc Layer Present _____, Absent _____, Water Over Floc, Yes _____, No w/ CPOM
Color _____, Sheen _____, Odor _____
Epibenthic Biota: Animals _____, Plants _____
Debris _____
Visual Evidence of Contamination _____

*Silt on Surface
light gray, brown*

CHARACTERISTICS OF HOMOGENIZED BULK SEDIMENT:
Sediment Type soft black ~~soot~~ w/ CPOM and some silt
Consistency _____, Moisture Conditions _____
Color _____, Sheen yes, Odor yes strong odor in deep sediment
Structure layers of silt CPOM and fine sand
Debris _____
Visual Evidence of Contamination (6-12+)

WATER QUALITY

Temp.: Water _____ Air _____ D.O. _____ pH _____ Conductivity _____

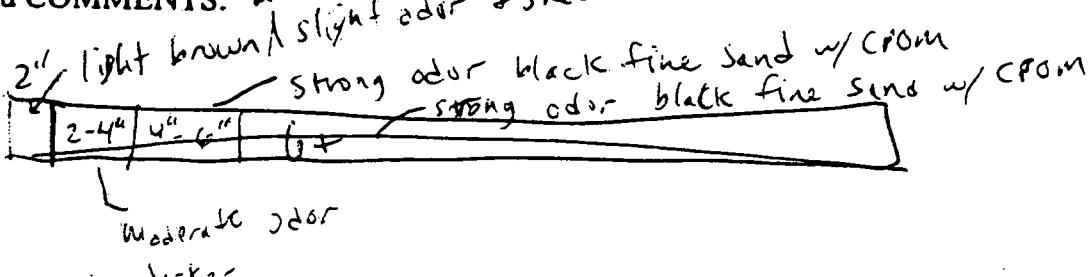
Alkalinity _____ Hardness _____

Turbidity: Clear Slightly Turbid Turbid Opaque Water Color _____

Water Surface Oils: Slick Sheen Globs Flecks None

Water Odors: Normal Sewage Petroleum Chemical None Other _____

NOTES and COMMENTS: *weak light brown slight odor & sheen*



Project: _____
Project No: _____

Sediment Sampling Data Sheet

Sampling Station SD-03L, Date 10/14/02, Time 9:00
Location: Latitude N 40° 45.982', Longitude W 71° 24.649'

Tidal Stage _____, Water Depth _____
Weather Conditions sunny, clear

Sampling Gear Corer-hand held, Collected By JM, JY

CHARACTERISTICS OF SURFACE (FLOC) SEDIMENT:

Floc Layer Present _____, Absent _____, Water Over Floc, Yes _____, No _____
Color black, Sheen no, Odor no
Epibenthic Biota: Animals _____, Plants _____
Debris lots of FPOM
Visual Evidence of Contamination _____

CHARACTERISTICS OF HOMOGENIZED BULK SEDIMENT:

Sediment Type Fine Grained Sand w/ muck top layer
Consistency _____, Moisture Conditions _____
Color Grey-Brown, Sheen no, Odor no
Structure _____
Debris CPOM - twigs, leaf matter
Visual Evidence of Contamination _____

WATER QUALITY

Temp.: Water _____ Air _____ D.O. _____ pH _____ Conductivity _____

Alkalinity _____ Hardness _____

Turbidity: Clear Slightly Turbid Turbid Opaque Water Color _____

Water Surface Oils: Slick Sheen Globs Flecks None

Water Odors Normal Sewage Petroleum Chemical None Other _____

NOTES and COMMENTS:

Project: _____

Project No: _____

Sediment Sampling Data Sheet

Sampling Station SD-03R, Date 11/14, Time 9:30
Location: Latitude N 41° 45.940', Longitude W 71° 24.671'

Tidal Stage _____ Water Depth 5 ft
Weather Conditions sunny

Sampling Gear core, Collected By JM RY

CHARACTERISTICS OF SURFACE (FLOC) SEDIMENT: Surface layer is
Floc Layer Present _____, Absent _____, Water Over Floc, Yes _____, No fine sand/silt
Color dark brown, Sheen no, Odor no
Epibenthic Biota: Animals _____, Plants _____
Debris _____
Visual Evidence of Contamination _____

CHARACTERISTICS OF HOMOGENIZED BULK SEDIMENT:

Sediment Type primarily coarse sand
Consistency firm, Moisture Conditions _____
Color brown, Sheen no, Odor no
Structure see below
Debris little debris
Visual Evidence of Contamination _____

WATER QUALITY

Temp.: Water _____ Air _____ D.O. _____ pH _____ Conductivity _____

Alkalinity _____ Hardness _____

Turbidity: Clear Slightly Turbid Turbid Opaque Water Color _____

Water Surface Oils: Slick Sheen Globs Flecks None

Water Odors Normal Sewage Petroleum Chemical None Other _____

NOTES and COMMENTS:

Core is fine sand silt for 1" followed by coarse sand w/o structure

STATION/SAMPLE LOGS

LOWER FACILITY

Project: _____

Project No: _____

Sediment Sampling Data Sheet

Sampling Station SD-04R, Date 11/14, Time 8:30
Location: Latitude N 41° 46.008', Longitude W 71° 24.613'

Tidal Stage _____ Water Depth _____
Weather Conditions sunny clear 40+

Sampling Gear core (0-6"), Collected By "Tim RY"

CHARACTERISTICS OF SURFACE (FLOC) SEDIMENT:

Floc Layer Present Y, Absent _____, Water Over Floc, Yes _____, No _____
Color light brown, Sheen no, Odor y slight petroil
Epibenthic Biota: Animals _____, Plants _____

Debris much CPOM

Visual Evidence of Contamination _____

Sediments 0-6 lower layer are ~~stained~~ dark

CHARACTERISTICS OF HOMOGENIZED BULK SEDIMENT:

Sediment Type black muck w/ leave+stick litter, Consistency _____, Moisture Conditions _____
Color black, Sheen no, Odor y petroil.
Structure _____

Debris CPOM

Visual Evidence of Contamination _____

WATER QUALITY

Temp.: Water _____ Air _____ D.O. _____ pH _____ Conductivity _____

Alkalinity _____ Hardness _____

Turbidity: Clear Slightly Turbid Turbid Opaque Water Color _____

Water Surface Oils: Slick Sheen Globs Flecks None

Water Odors Normal Sewage Petroleum Chemical None Other _____

NOTES and COMMENTS:

Project: _____

Project No: _____

Sediment Sampling Data Sheet

Sampling Station SD-05L, Date 11/13/02 Time 10:30
Location: Latitude N 41° 46.002', Longitude W 71° 24.583'

Tidal Stage _____ Water Depth _____
Weather Conditions _____

Sampling Gear Corer Hand-held, Collected By TM, RY

CHARACTERISTICS OF SURFACE (FLOC) SEDIMENT:

Floc Layer Present _____, Absent _____, Water Over Floc, Yes _____, No _____

Color _____, Sheen Present, Odor Petroleum

Epibenthic Biota: Animals _____, Plants _____

Debris _____

Visual Evidence of Contamination _____

CHARACTERISTICS OF HOMOGENIZED BULK SEDIMENT:

Sediment Type Very Fine Grain, Organic top layer

Consistency _____, Moisture Conditions _____

Color Black, Sheen _____, Odor _____

Structure _____

Debris _____

Visual Evidence of Contamination _____

WATER QUALITY

Temp.: Water _____ Air _____ D.O. _____ pH _____ Conductivity _____

Alkalinity _____ Hardness _____

Turbidity: Clear Slightly Turbid Turbid Opaque Water Color _____

Water Surface Oils: Slick Sheen Globs Flecks None

Water Odors Normal Sewage Petroleum Chemical None Other _____

NOTES and COMMENTS:

Project: _____

Project No: _____

Sediment Sampling Data Sheet

Sampling Station SD-06R, Date 11/13/02, Time 10:00
Location: Latitude N 41° 46.02', Longitude W 71° 24.576'

Tidal Stage _____ Water Depth _____
Weather Conditions _____

Sampling Gear Cover - Hand-held, Collected By GTM, RY

CHARACTERISTICS OF SURFACE (FLOC) SEDIMENT:

Floc Layer Present _____, Absent _____, Water Over Floc, Yes _____, No _____

Color _____, Sheen _____, Odor _____

Epibenthic Biota: Animals _____, Plants _____

Debris _____

Visual Evidence of Contamination _____

CHARACTERISTICS OF HOMOGENIZED BULK SEDIMENT:

Sediment Type See notes and comments

Consistency _____, Moisture Conditions _____

Color _____, Sheen _____, Odor _____

Structure _____

Debris _____

Visual Evidence of Contamination _____

WATER QUALITY

Temp.: Water _____ Air _____ D.O. _____ pH _____ Conductivity _____

Alkalinity _____ Hardness _____

Turbidity: Clear _____ Slightly Turbid _____ Turbid _____ Opaque _____ Water Color _____

Water Surface Oils: Slick _____ Sheen _____ Globs _____ Flecks _____ None _____

Water Odors: Normal _____ Sewage _____ Petroleum _____ Chemical _____ None _____ Other _____

NOTES and COMMENTS:

Core B layered fine sand w/ organic debris
for 1ft followed by coarse sand and medium
sand

Project: _____

Project No: _____

Sediment Sampling Data Sheet

Sampling Station SD-07L, Date 11/13/02, Time 9:30
Location: Latitude N 41° 46.056', Longitude W 71° 24.451'

Tidal Stage _____, Water Depth _____
Weather Conditions _____

Sampling Gear CORE - Hand held, Collected By JMRY

CHARACTERISTICS OF SURFACE (FLOC) SEDIMENT:

Floc Layer Present _____, Absent _____, Water Over Floc, Yes _____, No _____

Color _____, Sheen _____, Odor _____

Epibenthic Biota: Animals _____, Plants _____

Debris _____

Visual Evidence of Contamination _____

CHARACTERISTICS OF HOMOGENIZED BULK SEDIMENT:

Sediment Type Fine Grain w/ Intermittent Organic Laysers

Consistency _____, Moisture Conditions _____

Color Black, Sheen _____, Odor _____

Structure _____

Debris _____

Visual Evidence of Contamination _____

WATER QUALITY

Temp.: Water _____ Air _____ D.O. _____ pH _____ Conductivity _____

Alkalinity _____ Hardness _____

Turbidity: Clear Slightly Turbid Turbid Opaque Water Color _____

Water Surface Oils: Slick Sheen Globs Flecks None

Water Odors Normal Sewage Petroleum Chemical None Other _____

NOTES and COMMENTS:

Project: _____

Project No: _____

Sediment Sampling Data Sheet

Sampling Station SD-08M, Date 11/13/02, Time 9:00
Location: Latitude N 41° 46.059', Longitude W 71° 24.422'

Tidal Stage _____, Water Depth _____
Weather Conditions _____

Sampling Gear Corer - Hand-hold, Collected By "TM, RC

CHARACTERISTICS OF SURFACE (FLOC) SEDIMENT:

Floc Layer Present _____, Absent _____, Water Over Floc, Yes _____, No _____

Color _____, Sheen _____, Odor _____

Epibenthic Biota: Animals _____, Plants _____

Debris _____

Visual Evidence of Contamination _____

CHARACTERISTICS OF HOMOGENIZED BULK SEDIMENT:

Sediment Type Sorted with large cobble on bottom, fine gruns on top

Consistency _____, Moisture Conditions _____

Color _____, Sheen _____, Odor _____

Structure _____

Debris _____

Visual Evidence of Contamination _____

WATER QUALITY

Temp.: Water _____ Air _____ D.O. _____ pH _____ Conductivity _____

Alkalinity _____ Hardness _____

Turbidity: Clear Slightly Turbid Turbid Opaque Water Color _____

Water Surface Oils: Slick Sheen Globs Flecks None

Water Odors Normal Sewage Petroleum Chemical None Other _____

NOTES and COMMENTS:

STATION/SAMPLE LOGS

DOWNSTREAM

Project: _____

Project No: _____

Sediment Sampling Data Sheet

Sampling Station SD-10M, Date 11/12/02, Time 12:15
Location: Latitude N 41° 46.06', Longitude W 71° 24.274'

Tidal Stage _____, Water Depth _____
Weather Conditions _____

Sampling Gear Cover Hand-held, Collected By "TM, RY"

CHARACTERISTICS OF SURFACE (FLOC) SEDIMENT:

Floc Layer Present _____, Absent _____, Water Over Floc, Yes _____, No _____

Color _____, Sheen _____, Odor _____

Epibenthic Biota: Animals _____, Plants _____

Debris _____

Visual Evidence of Contamination _____

CHARACTERISTICS OF HOMOGENIZED BULK SEDIMENT:

Sediment Type Poorly Sorted Medium Grain

Consistency _____, Moisture Conditions _____

Color _____, Sheen _____, Odor _____

Structure _____

Debris _____

Visual Evidence of Contamination _____

WATER QUALITY

Temp.: Water _____ Air _____ D.O. _____ pH _____ Conductivity _____

Alkalinity _____ Hardness _____

Turbidity: Clear _____ Slightly Turbid _____ Turbid _____ Opaque _____ Water Color _____

Water Surface Oils: Slick _____ Sheen _____ Glocs _____ Flecks _____ None _____

Water Odors: Normal _____ Sewage _____ Petroleum _____ Chemical _____ None _____ Other _____

NOTES and COMMENTS:

Project: _____

Project No: _____

Sediment Sampling Data Sheet

Sampling Station SD-13R, Date 1/12/02, Time 11:10
Location: Latitude N 41° 46.009', Longitude W 71° 24.047'

Tidal Stage _____, Water Depth _____
Weather Conditions _____

Sampling Gear Cover - Hand-held, Collected By JM, RY

CHARACTERISTICS OF SURFACE (FLOC) SEDIMENT:

Floc Layer Present _____, Absent _____, Water Over Floc, Yes _____, No _____

Color _____, Sheen _____, Odor _____

Epibenthic Biota: Animals _____, Plants _____

Debris _____

Visual Evidence of Contamination _____

CHARACTERISTICS OF HOMOGENIZED BULK SEDIMENT:

Sediment Type Poorly Sorted - medium grain w/ leaf litter (organic) top inch

Consistency _____, Moisture Conditions _____

Color _____, Sheen _____, Odor _____

Structure _____

Debris _____

Visual Evidence of Contamination _____

WATER QUALITY

Temp.: Water _____ Air _____ D.O. _____ pH _____ Conductivity _____

Alkalinity _____ Hardness _____

Turbidity: Clear _____ Slightly Turbid _____ Turbid _____ Opaque _____ Water Color _____

Water Surface Oils: Slick _____ Sheen _____ Globs _____ Flecks _____ None _____

Water Odors Normal _____ Sewage _____ Petroleum _____ Chemical _____ None _____ Other _____

NOTES and COMMENTS:

Project: _____

Project No: _____

Sediment Sampling Data Sheet

Sampling Station SD-16M, Date 11/12/02, Time 11:15
Location: Latitude 41°46.089', Longitude N 71°23.952'

Tidal Stage _____, Water Depth _____
Weather Conditions _____

Sampling Gear Core - Hand held, Collected By JM, RY

CHARACTERISTICS OF SURFACE (FLOC) SEDIMENT:

Floc Layer Present _____, Absent _____, Water Over Floc, Yes _____, No _____

Color _____, Sheen _____, Odor _____

Epibenthic Biota: Animals _____, Plants _____

Debris _____

Visual Evidence of Contamination _____

CHARACTERISTICS OF HOMOGENIZED BULK SEDIMENT:

Sediment Type Medium Grn, Poorly Sorted

Consistency _____, Moisture Conditions _____

Color _____, Sheen _____, Odor _____

Structure _____

Debris _____

Visual Evidence of Contamination _____

WATER QUALITY

Temp.: Water _____ Air _____ D.O. _____ pH _____ Conductivity _____

Alkalinity _____ Hardness _____

Turbidity: Clear Slightly Turbid Turbid Opaque Water Color _____

Water Surface Oils: Slick Sheen Globs Flecks None

Water Odors Normal Sewage Petroleum Chemical None Other _____

NOTES and COMMENTS:

Project: _____

Project No: _____

Sediment Sampling Data Sheet

Sampling Station SD-20M, Date 1/12/02, Time 11:00
Location: Latitude N 41° 45.978', Longitude W 71° 23.737'

Tidal Stage _____ Water Depth _____
Weather Conditions _____

Sampling Gear Corer - Hand-held, Collected By JM, RY

CHARACTERISTICS OF SURFACE (FLOC) SEDIMENT:

Floc Layer Present _____, Absent _____, Water Over Floc, Yes _____, No _____
Color _____, Sheen _____, Odor _____
Epibenthic Biota: Animals _____, Plants _____
Debris _____
Visual Evidence of Contamination _____

CHARACTERISTICS OF HOMOGENIZED BULK SEDIMENT:

Sediment Type Poorly Sorted Large/medium Grain
Consistency _____, Moisture Conditions _____
Color _____, Sheen _____, Odor _____
Structure _____
Debris _____
Visual Evidence of Contamination _____

WATER QUALITY

Temp.: Water _____ Air _____ D.O. _____ pH _____ Conductivity _____

Alkalinity _____ Hardness _____

Turbidity: Clear _____ Slightly Turbid _____ Turbid _____ Opaque _____ Water Color _____

Water Surface Oils: Slick _____ Sheen _____ Globs _____ Flecks _____ None _____

Water Odors Normal _____ Sewage _____ Petroleum _____ Chemical _____ None _____ Other _____

NOTES and COMMENTS:

APPENDIX

C

TINUVIN 328 ANALYSIS**PAWTUXET RIVER SEDIMENT SAMPLES ~ 11/ 2002**

SAMPLE ID	TINUVIN 328 RESULTS (mg/kg)	MDL (mg/kg)	% RECOVERY	COMMENTS
Method Blank	N.D.	0.0160		
LFB	0.8451	0.0160	118.1	
SD-10-0-6	0.0480	0.0187		
SD-13R-0-2	0.2021	0.0192		
SD-13R-2-4	0.1414	0.0186		
SD-13R-4-6	0.0628	0.0180		
SD-13R-6-12	0.0975	0.0189		
SD-16M-0-2	0.2445	0.0181		
SD-16M-0-2 DUP	0.4384	0.0181		
SD-16M-0-2 MS	1.7695	0.0181	176.0	
SD-16M-0-2 MSD	1.7426	0.0180	173.7	
SD-16M-2-4	0.7760	0.0177		
SD-16M-4-6	0.3935	0.0177		
SD-16M-6-12	0.0775	0.0177		
SD-20M-0-6	0.0714	0.0172		
SD-05L-0-2	0.6051	0.0317		
SD-05L-2-4	N.D.	0.0279		
SD-05L-4-6	0.2723	0.0256		
SD-05L-6-12	0.1081	0.0236		
SD-06R-0-6	0.0960	0.0316		
SD-07L-0-6	0.2566	0.0293		
SD-08M-0-2	N.D.	0.0165		
SD-08M-2-4	N.D.	0.0168		
SD-08M-4-6	N.D.	0.0171		
SD-08M-6-12	N.D.	0.0170		
Method Blank	N.D.	0.0160		
LFB	N.D.	0.0160	0.0	No Spike Added
SD-02L-0-6	0.5119	0.0587		
SD-03L-0-6	N.D.	0.0243		
SD-03R-0-6	0.2890	0.0182		
SD-04R-0-6	N.D.	0.0460		
SD-00M-0-2	0.0433	0.0173		
SD-00M-0-2 DUP	0.0439	0.0174		
SD-00M-0-2 MS	0.9912	0.0174	121.7	
SD-00M-0-2 MSD	1.0528	0.0174	129.9	
SD-00M-2-4	N.D.	0.0175		
SD-00M-4-6	0.0454	0.0173		
SD-00M-6-12	N.D.	0.0174		
SD-01R-0-6	N.D.	0.0607		
SD-T47A-0-6	N.D.	0.0235		
SD-02R-0-2	4.9310	0.1917		Dilution Factor = 5
SD-02R-2-4	31.1374	0.8275		Dilution Factor = 25
SD-02R-4-6	30.0525	0.6271		Dilution Factor = 20
SD-02R-6-12	61.6507	1.8353		Dilution Factor = 50



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Quality Control Summary

Client Name: Ciba Specialty Chemicals Corp
 Reported: 11/29/02 at 11:47 AM

Group Number: 830814

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	LCS %REC	LCSD %REC	LCS/LCSD Limits	<u>RPD</u>	<u>RPD Max</u>
Batch number: 02319820002A Moisture			Sample number(s): 3940093-3940097	100		99-101		
Batch number: 02319820002B Moisture			Sample number(s): 3940098-3940102	100		99-101		
Batch number: 02319SLA026 Pyrene 1,2-Dichlorobenzene Anthracene Fluoranthene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene 4-Chloroaniline 2-Methylnaphthalene	N.D.	33.	ug/kg	87		67-123		
	N.D.	33.	ug/kg	78		64-107		
	N.D.	33.	ug/kg	83		64-116		
	N.D.	33.	ug/kg	79		65-115		
	N.D.	33.	ug/kg	87		69-115		
	N.D.	33.	ug/kg	86		67-119		
	N.D.	33.	ug/kg	88		66-122		
	N.D.	33.	ug/kg	88		66-122		
	N.D.	33.	ug/kg	87		72-118		
	N.D.	33.	ug/kg	96		73-118		
	N.D.	33.	ug/kg	96		78-126		
	N.D.	33.	ug/kg	96		73-119		
	N.D.	33.	ug/kg	36		1-103		
	N.D.	33.	ug/kg	77		65-108		
Batch number: 023220006A PCB-1221 PCB-1232 PCB-1242 PCB-1248 PCB-1254 PCB-1260	N.D.	3.3	ug/kg					
	N.D.	3.3	ug/kg					
	N.D.	3.3	ug/kg					
	N.D.	3.3	ug/kg					
	N.D.	3.3	ug/kg					
	N.D.	3.3	ug/kg					
	N.D.	3.3	ug/kg	82		76-122		
Batch number: 02323102201A Total Cyanide (solid)	N.D.	.18	mg/kg	96		90-110		
Batch number: 023235708001 Thallium Cadmium Copper Lead Zinc	N.D.	.98	mg/kg	105		91-115		
	N.D.	.091	mg/kg	97		88-106		
	N.D.	.16	mg/kg	99		90-111		
	N.D.	.94	mg/kg	97		86-109		
	4.4	.36	mg/kg	98		85-111		
Batch number: 02324011131A TOC Solids/Sludges Combustion	N.D.	60.	mg/kg	82		77-123		
Batch number: 02324011131B TOC Solids/Sludges Combustion	N.D.	60.	mg/kg	82		77-123		
Batch number: D023185AA Toluene Chlorobenzene m,p-Xylene o-Xylene	N.D.	1.	ug/kg	113		81-116		
	N.D.	1.	ug/kg	96		81-112		
	N.D.	1.	ug/kg	109		82-117		
	N.D.	1.	ug/kg	108		82-117		

Sample Matrix Quality Control

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



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Quality Control Summary

Client Name: Ciba Specialty Chemicals Corp
 Reported: 11/29/02 at 11:47 AM

Group Number: 830814

<u>Analysis Name</u>	MS	MSD	MS/MSD	RPD	BKG	DUP	DUP	Dup RPD Max
	%REC	%REC	Limits	RPD	MAX	Conc	Conc	RPD
Batch number: 02319710301A			Sample number(s): 3940093-3940102					
75 mm				100.	100.	0	0	20
37.5 mm				100.	100.	0	0	20
19 mm				100.	100.	0	0	20
4.75 mm				99.0	99.0	0	0	20
3.35 mm				98.6	98.6	0	0	20
2.36 mm				98.0	98.0	0	0	20
1.18 mm				95.6	95.5	0	0	20
0.6 mm				89.0	87.5	2	2	20
0.3 mm				58.3	56.5	3	3	20
0.15 mm				28.6	28.8	1	1	20
0.075 mm				22.4	22.8	2	2	20
0.064 mm				22.0	22.5	2	2	20
0.05 mm				20.5	21.5	5	5	20
0.02 mm				14.5	13.5	7	7	20
0.005 mm				3.0	4.0	29* (1)	29* (1)	20
0.002 mm				2.0	2.5	22* (1)	22* (1)	20
0.001 mm				2.0	1.0	67* (1)	67* (1)	20
Batch number: 02319820002A			Sample number(s): 3940093-3940097					
Moisture				75.5	75.5	0	0	15
Batch number: 02319820002B			Sample number(s): 3940098-3940102					
Moisture				16.8	17.3	3	3	15
Batch number: 02319SLA026			Sample number(s): 3940093-3940102					
Pyrene	99	75	19-152	22	30			
1,2-Dichlorobenzene	84	74	22-134	13	30			
Anthracene	90	77	29-141	15	30			
Fluoranthene	75	47	21-141	33*	30			
Benzo(a)anthracene	94	75	22-151	20	30			
Chrysene	103	83	22-149	20	30			
Benzo(b)fluoranthene	95	77	23-146	18	30			
Benzo(k)fluoranthene	105	84	27-149	21	30			
Benzo(a)pyrene	97	78	25-149	20	30			
Indeno(1,2,3-cd)pyrene	116	83	13-157	31*	30			
Dibenz(a,h)anthracene	126	101	14-170	22	30			
Benzo(g,h,i)perylene	122	89	11-158	29	30			
4-Chloroaniline	35	48	1-127	31*	30			
2-Methylnaphthalene	86	77	22-145	11	30			
Batch number: 023220006A			Sample number(s): 3940093-3940102					
PCB-1260	129	118	40-142	10	50			
Batch number: 02323102201A			Sample number(s): 3940093-3940102					
Total Cyanide (solid)	92		75-125			N.D.	N.D.	200* (1)
Batch number: 023235708001			Sample number(s): 3940093-3940102					
Thallium	104	105	72-109	1	20	1.9	3.3	55* (1)
Cadmium	103	103	75-125	1	20	N.D.	N.D.	0 (1)
Copper	170*	179*	75-125	4	20	12.8	28.0	74* (1)
Lead	116	118	75-125	2	20	6.9	15.2	75* (1)
Zinc	202*	198*	75-125	2	20	35.1	68.8	65* (1)
Batch number: 02324011131A			Sample number(s): 3940093-3940100					

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
 (2) The background result was more than four times the spike added.



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Quality Control Summary

Client Name: Ciba Specialty Chemicals Corp
 Reported: 11/29/02 at 11:47 AM

Group Number: 830814

Sample Matrix Quality Control

<u>Analysis Name</u>	<u>MS</u>	<u>MSD</u>	<u>MS/MSD</u>	<u>RPD</u>	<u>BKG</u>	<u>DUP</u>	<u>DUP</u>	<u>Dup RPD Max</u>
	<u>%REC</u>	<u>%REC</u>	<u>Limits</u>	<u>RPD</u>	<u>MAX</u>	<u>Conc</u>	<u>Conc</u>	<u>RPD</u>
TOC Solids/Sludges Combustion	78		37-132			182,000.	185,000.	2
Batch number: 02324011131B			Sample number(s): 3940101-3940102					
TOC Solids/Sludges Combustion	71		37-132			22,400.	22,300.	0
Batch number: D023185AA			Sample number(s): 3940093-3940102					
Toluene	92	93	41-147	2	30			
Chlorobenzene	93	91	48-132	2	30			
m+p-Xylene	92	93	47-139	1	30			
o-Xylene	92	91	47-139	1	30			

Surrogate Quality Control

Analysis Name: TCL SW846 Semivolatiles Soil
 Batch number: 02319SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5
3940093	76	80	80	85
3940094	85	85	90	88
3940095	82	84	87	86
3940096	75	76	79	78
3940097	80	81	80	81
3940098	75	76	76	78
3940099	79	82	88	82
3940100	81	83	88	86
3940101	83	85	88	88
3940102	81	83	89	86
Blank	83	85	86	89
LCS	79	82	83	86
MS	85	90	93	97
MSD	79	81	82	85
Limits:	46-120	46-122	37-139	50-132
	2-Fluorobiphenyl	Terphenyl-d14		
3940093	89	80		
3940094	93	80		
3940095	90	80		
3940096	80	73		
3940097	83	81		
3940098	80	76		
3940099	87	73		
3940100	90	70		
3940101	89	71		
3940102	88	74		
Blank	91	77		
LCS	88	83		
MS	98	90		
MSD	86	79		

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



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Quality Control Summary

Client Name: Ciba Specialty Chemicals Corp
 Reported: 11/29/02 at 11:47 AM

Group Number: 830814

Limits: 57-123 Surrogate Quality Control
 48-141

Analysis Name: PCBs in Solids
 Batch number: 023220006A

Tetrachloro-m-xylene	Decachlorobiphenyl
3940093	96
3940094	97
3940095	94
3940096	92
3940097	94
3940098	96
3940099	84
3940100	139
3940101	96
3940102	108

Tetrachloro-m-xylene	Decachlorobiphenyl
3940093	131
3940094	125
3940095	134*
3940096	118
3940097	122
3940098	126
3940099	118
3940100	136*
3940101	128
3940102	135*

Limits: 53-139 41-132

Analysis Name: EPA SW846/8260 (soil)
 Batch number: D023185AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
3940093	95	97	92	85
3940094	98	89	91	83
3940095	101	91	94	84
3940096	99	88	90	84
3940097	99	86	92	83
3940098	99	87	91	83
3940099	100	93	89	83
3940100	100	89	89	85
3940101	102	93	87	82
3940102	103	91	89	83
Blank	98	97	91	88
LCS	93	96	93	89
MS	95	91	95	87
MSD	96	88	98	88

Limits: 80-120 80-120 81-117 74-121

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



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Lancaster Laboratories Sample No. SW 3942195

Collected: 11/15/2002 08:30 by TM

Account Number: 04285

Submitted: 11/18/2002 20:00

Ciba Specialty Chemicals Corp
Bldg 743 -Route 37 West

Reported: 12/11/2002 at 12:24

P.O. Box 71

Discard: 02/10/2003

Toms River NJ 08754-0071

SD-01R-0-6 Composite Sediment Sample

Pawtuxet River Sediment, RI

PR1R0

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
01625	Thallium	7440-28-0	N.D.	4.4	mg/kg	1
01649	Cadmium	7440-43-9	5.7	0.41	mg/kg	1
01653	Copper	7440-50-8	187.	0.72	mg/kg	1
01655	Lead	7439-92-1	313.	4.2	mg/kg	1
01672	Zinc	7440-66-6	616.	1.6	mg/kg	1
00111	Moisture	n.a.	77.7	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
02079	TOC Solids/Sludges Combustion	n.a.	97,000.	8,300.	mg/kg	1
05895	Total Cyanide (solid)	57-12-5	N.D.	0.77	mg/kg	1
01216	PCBs in Solids					
01496	PCB-1221	11104-28-2	N.D.	15.	ug/kg	1
01497	PCB-1232	11141-16-5	N.D.	15.	ug/kg	1
01498	PCB-1242	53469-21-9	N.D.	15.	ug/kg	1
01499	PCB-1248	12672-29-6	N.D.	15.	ug/kg	1
01500	PCB-1254	11097-69-1	250.	15.	ug/kg	1
01501	PCB-1260	11096-82-5	130.	15.	ug/kg	1
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.						
04688	TCL SW846 Semivolatiles Soil					
03755	1,2-Dichlorobenzene	95-50-1	N.D.	760.	ug/kg	1
04693	4-Chloroaniline	106-47-8	N.D.	760.	ug/kg	1
04694	2-Methylnaphthalene	91-57-6	N.D.	760.	ug/kg	1
04689	TCL SW846 Semivolatiles/Soil					
01195	Pyrene	129-00-0	7,600.	760.	ug/kg	1
03776	Anthracene	120-12-7	790.	760.	ug/kg	1
03778	Fluoranthene	206-44-0	7,900.	760.	ug/kg	1
03781	Benzo(a)anthracene	56-55-3	3,000.	760.	ug/kg	1
03782	Chrysene	218-01-9	5,000.	760.	ug/kg	1
03786	Benzo(b)fluoranthene	205-99-2	5,900.	760.	ug/kg	1
03787	Benzo(k)fluoranthene	207-08-9	2,100.	760.	ug/kg	1
03788	Benzo(a)pyrene	50-32-8	3,700.	760.	ug/kg	1
03789	Indeno(1,2,3-cd)pyrene	193-39-5	3,400.	760.	ug/kg	1



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Lancaster Laboratories Sample No. SW 3942195

Collected: 11/15/2002 08:30 by TM

Account Number: 04285

Submitted: 11/18/2002 20:00

Ciba Specialty Chemicals Corp

Reported: 12/11/2002 at 12:24

Bldg 743 -Route 37 West

Discard: 02/10/2003

P.O. Box 71

SD-01R-0-6 Composite Sediment Sample

Toms River NJ 08754-0071

Pawtuxet River Sediment, RI

PR1R0

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
03790	Dibenz(a,h)anthracene	53-70-3	880.	760.	ug/kg	1
03791	Benzo(g,h,i)perylene	191-24-2	3,300.	760.	ug/kg	1
The usual reporting limits could not be attained due to the matrix of the sample or interferences observed in the GC/MS semivolatile analysis.						
05441	EPA SW846/8260 (soil)					
05466	Toluene	108-88-3	16.	4.	ug/kg	1
05472	Chlorobenzene	108-90-7	910.	4.	ug/kg	1
05442	EPA SW846/8260 (soil) cont					
05475	m+p-Xylene	1330-20-7	N.D.	4.	ug/kg	1
05476	o-Xylene	95-47-6	27.	4.	ug/kg	1
The GC/MS volatile internal standard peak areas were outside the QC limits for both the initial analysis and the re-analysis. The values reported here are from the initial analysis of the sample. In addition, poor surrogate recoveries were observed for the re-analysis.						
07103	Grain Size to 1 um					
07135	75 mm	n.a.	100.	0.50	% Passing	1
07136	37.5 mm	n.a.	100.	0.50	% Passing	1
07137	19 mm	n.a.	100.	0.50	% Passing	1
07138	4.75 mm	n.a.	99.3	0.50	% Passing	1
07139	3.35 mm	n.a.	98.7	0.50	% Passing	1
07140	2.36 mm	n.a.	97.8	0.50	% Passing	1
07141	1.18 mm	n.a.	96.5	0.50	% Passing	1
07142	0.6 mm	n.a.	94.2	0.50	% Passing	1
07143	0.3 mm	n.a.	90.6	0.50	% Passing	1
07144	0.15 mm	n.a.	69.4	0.50	% Passing	1
07145	0.075 mm	n.a.	41.6	0.50	% Passing	1
07146	0.064 mm	n.a.	37.0	0.50	% Passing	1
07147	0.05 mm	n.a.	31.5	0.50	% Passing	1



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Lancaster Laboratories Sample No. SW 3942195

Collected: 11/15/2002 08:30 by TM

Account Number: 04285

Submitted: 11/18/2002 20:00

Ciba Specialty Chemicals Corp

Reported: 12/11/2002 at 12:24

Bldg 743 -Route 37 West

Discard: 02/10/2003

P.O. Box 71

SD-01R-0-6 Composite Sediment Sample

Toms River NJ 08754-0071

Pawtuxet River Sediment, RI

PR1R0

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
07148	0.02 mm	n.a.	12.5	0.50	Passing	
07149	0.005 mm	n.a.	5.5	0.50	Passing	1
07150	0.002 mm	n.a.	4.0	0.50	Passing	1
07151	0.001 mm	n.a.	2.5	0.50	Passing	1

The hydrometer values (particle sizes 0.064 mm to 0.001 mm) are interpolated from the plotted data.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Date and Time	Analysis	Analyst	Dilutio n Factor
01625	Thallium	SW-846 6010B	1	11/21/2002 16:26		Damary Valentin	1
01649	Cadmium	SW-846 6010B	1	11/21/2002 16:26		Damary Valentin	1
01653	Copper	SW-846 6010B	1	11/21/2002 16:26		Damary Valentin	1
01655	Lead	SW-846 6010B	1	11/21/2002 16:26		Damary Valentin	1
01672	Zinc	SW-846 6010B	1	11/21/2002 16:26		Damary Valentin	1
00111	Moisture	EPA 160.3 modified	1	11/19/2002 15:48		Scott W Freisher	1
02079	TOC Solids/Sludges Combustion	SM18 5310B, modified	1	11/26/2002 15:36		Timothy M Petree	1
05895	Total Cyanide (solid)	SW-846 9012A	1	11/22/2002 14:22		Nicole M Kepley	1
01216	PCBs in Solids	SW-846 8082	1	11/22/2002 14:11		Tiffany A Leyda	1
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	11/28/2002 17:34		Linda M Hartenstine	1
04689	TCL SW846 Semivolatiles/Soil	SW-846 8270C	1	11/28/2002 17:34		Linda M Hartenstine	1
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	11/20/2002 00:35		Ryan V Nolt	1
05442	EPA SW846/8260 (soil) cont	SW-846 8260B	1	11/20/2002 00:35		Ryan V Nolt	1
07103	Grain Size to 1 um	ASTM D-422	1	11/22/2002 12:00		Catherine L Cammauf	1
00374	GC/MS VOA Soil Prep	SW-846 5030A	1	11/19/2002 21:17		Ryan V Nolt	n.a.
00381	BNA Soil Extraction	SW-846 3550B	2	11/27/2002 19:45		Luis E Villamil	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/20/2002 00:15		David V Hershey Jr	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	11/20/2002 18:16		Charles R Looper	1
05896	Cyanide Solid Distillation	SW-846 9012A, mod.	1	11/21/2002 10:40		Cheryl L Robinson	1



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Lancaster Laboratories Sample No. SW 3942190

Collected: 11/15/2002 10:30 by TM

Account Number: 04285

Submitted: 11/18/2002 20:00

Ciba Specialty Chemicals Corp
Bldg 743 -Route 37 West

Reported: 12/11/2002 at 12:23

P.O. Box 71

Discard: 02/10/2003

Toms River NJ 08754-0071

SD-T47A-0-6 Composite Sediment Sample

Pawtuxet River Sediment, RI

T47A-

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
01625	Thallium	7440-28-0	N.D.	1.4	mg/kg	1
01649	Cadmium	7440-43-9	2.1	0.13	mg/kg	1
01653	Copper	7440-50-8	38.0	0.23	mg/kg	1
01655	Lead	7439-92-1	40.1	1.4	mg/kg	1
01672	Zinc	7440-66-6	90.8	0.52	mg/kg	1
00111	Moisture	n.a.	31.2	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
02079	TOC Solids/Sludges Combustion	n.a.	8,300.	1,800.	mg/kg	1
05895	Total Cyanide (solid)	57-12-5	N.D.	0.26	mg/kg	1
01216	PCBs in Solids					
01496	PCB-1221	11104-28-2	N.D.	4.8	ug/kg	1
01497	PCB-1232	11141-16-5	N.D.	4.8	ug/kg	1
01498	PCB-1242	53469-21-9	N.D.	4.8	ug/kg	1
01499	PCB-1248	12672-29-6	N.D.	4.8	ug/kg	1
01500	PCB-1254	11097-69-1	26.	4.8	ug/kg	1
01501	PCB-1260	11096-82-5	39.	4.8	ug/kg	1
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.						
04688	TCL SW846 Semivolatiles Soil					
03755	1,2-Dichlorobenzene	95-50-1	N.D.	48.	ug/kg	1
04693	4-Chloroaniline	106-47-8	80.	48.	ug/kg	1
04694	2-Methylnaphthalene	91-57-6	N.D.	48.	ug/kg	1
04689	TCL SW846 Semivolatiles/Soil					
01195	Pyrene	129-00-0	860.	48.	ug/kg	1
03776	Anthracene	120-12-7	110.	48.	ug/kg	1
03778	Fluoranthene	206-44-0	1,000.	48.	ug/kg	1
03781	Benzo(a)anthracene	56-55-3	470.	48.	ug/kg	1
03782	Chrysene	218-01-9	710.	48.	ug/kg	1
03786	Benzo(b)fluoranthene	205-99-2	810.	48.	ug/kg	1
03787	Benzo(k)fluoranthene	207-08-9	360.	48.	ug/kg	1
03788	Benzo(a)pyrene	50-32-8	520.	48.	ug/kg	1
03789	Indeno(1,2,3-cd)pyrene	193-39-5	430.	48.	ug/kg	1



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Lancaster Laboratories Sample No. SW 3942190

Collected: 11/15/2002 10:30 by TM

Account Number: 04285

Submitted: 11/18/2002 20:00

Ciba Specialty Chemicals Corp
Bldg 743 -Route 37 West
P.O. Box 71
Toms River NJ 08754-0071

Reported: 12/11/2002 at 12:23

Discard: 02/10/2003

SD-T47A-0-6 Composite Sediment Sample

Pawtuxet River Sediment, RI

T47A-

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
03790	Dibenz(a,h)anthracene	53-70-3	110.	48.	ug/kg	1
03791	Benzo(g,h,i)perylene	191-24-2	440.	48.	ug/kg	1
05441	EPA SW846/8260 (soil)					
05466	Toluene	108-88-3	N.D.	1.	ug/kg	1
05472	Chlorobenzene	108-90-7	2.	1.	ug/kg	1
05442	EPA SW846/8260 (soil) cont					
05475	m+p-Xylene	1330-20-7	N.D.	1.	ug/kg	1
05476	o-Xylene	95-47-6	N.D.	1.	ug/kg	1
07103	Grain Size to 1 um					
07135	75 mm	n.a.	100.	0.50	% Passing	1
07136	37.5 mm	n.a.	100.	0.50	% Passing	1
07137	19 mm	n.a.	100.	0.50	% Passing	1
07138	4.75 mm	n.a.	99.6	0.50	% Passing	1
07139	3.35 mm	n.a.	99.3	0.50	% Passing	1
07140	2.36 mm	n.a.	99.0	0.50	% Passing	1
07141	1.18 mm	n.a.	98.3	0.50	% Passing	1
07142	0.6 mm	n.a.	96.4	0.50	% Passing	1
07143	0.3 mm	n.a.	91.2	0.50	% Passing	1
07144	0.15 mm	n.a.	66.2	0.50	% Passing	1
07145	0.075 mm	n.a.	23.3	0.50	% Passing	1
07146	0.064 mm	n.a.	17.0	0.50	% Passing	1
07147	0.05 mm	n.a.	9.0	0.50	% Passing	1
07148	0.02 mm	n.a.	4.0	0.50	% Passing	1
07149	0.005 mm	n.a.	N.D.	0.50	% Passing	1
07150	0.002 mm	n.a.	N.D.	0.50	% Passing	1
07151	0.001 mm	n.a.	N.D.	0.50	% Passing	1

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Lancaster Laboratories Sample No. SW 3942190

Collected: 11/15/2002 10:30 by TM

Account Number: 04285

Submitted: 11/18/2002 20:00

Ciba Specialty Chemicals Corp
Bldg 743 -Route 37 West
P.O. Box 71
Toms River NJ 08754-0071

Reported: 12/11/2002 at 12:23

Discard: 02/10/2003

SD-T47A-0-6 Composite Sediment Sample

Pawtuxet River Sediment, RI

T47A-

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
						Passing

The hydrometer values (particle sizes 0.064 mm to 0.001 mm) are interpolated from the plotted data.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Date and Time	Analysis	Analyst	Dilution Factor
01625	Thallium	SW-846 6010B	1	11/21/2002 16:02		Damary Valentin	1
01649	Cadmium	SW-846 6010B	1	11/21/2002 16:02		Damary Valentin	1
01653	Copper	SW-846 6010B	1	11/21/2002 16:02		Damary Valentin	1
01655	Lead	SW-846 6010B	1	11/21/2002 16:02		Damary Valentin	1
01672	Zinc	SW-846 6010B	1	11/21/2002 16:02		Damary Valentin	1
00111	Moisture	EPA 160.3 modified	1	11/19/2002 15:48		Scott W Freisher	1
02079	TOC Solids/Sludges Combustion	SM18 5310B, modified	1	11/25/2002 17:53		Timothy M Petree	1
05895	Total Cyanide (solid)	SW-846 9012A	1	11/22/2002 14:12		Nicole M Kepley	1
01216	PCBs in Solids	SW-846 8082	1	11/22/2002 11:34		Tiffany A Leyda	1
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	11/22/2002 16:49		Mark A Ratcliff	1
04689	TCL SW846 Semivolatiles/Soil	SW-846 8270C	1	11/22/2002 16:49		Mark A Ratcliff	1
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	11/20/2002 02:14		Ryan V Nolt	1
05442	EPA SW846/8260 (soil) cont	SW-846 8260B	1	11/20/2002 02:14		Ryan V Nolt	1
07103	Grain Size to 1 um	ASTM D-422	1	11/22/2002 12:00		Catherine L Cammauf	1
00374	GC/MS VOA Soil Prep	SW-846 5030A	1	11/19/2002 21:19		Ryan V Nolt	n.a.
00381	BNA Soil Extraction	SW-846 3550B	1	11/19/2002 19:10		Amy M Strocko	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/20/2002 00:15		David V Hershey Jr	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	11/20/2002 18:16		Charles R Looper	1
05896	Cyanide Solid Distillation	SW-846 9012A, mod.	1	11/21/2002 10:40		Cheryl L Robinson	1



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Lancaster Laboratories Sample No. SW 3942191

Collected: 11/15/2002 09:15 by TM

Account Number: 04285

Submitted: 11/18/2002 20:00

Ciba Specialty Chemicals Corp
Bldg 743 -Route 37 West
P.O. Box 71
Toms River NJ 08754-0071

Reported: 12/11/2002 at 12:23

Discard: 02/10/2003

SD-00M-0-2 Composite Sediment Sample

Pawtuxet River Sediment, RI

PROMO

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
01625	Thallium	7440-28-0	N.D.	1.1	mg/kg	1
01649	Cadmium	7440-43-9	N.D.	0.099	mg/kg	1
01653	Copper	7440-50-8	11.2	0.17	mg/kg	1
01655	Lead	7439-92-1	14.5	1.0	mg/kg	1
01672	Zinc	7440-66-6	35.0	0.39	mg/kg	1
00111	Moisture	n.a.	8.56	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
02079	TOC Solids/Sludges Combustion	n.a.	7,300.	900.	mg/kg	1
05895	Total Cyanide (solid)	57-12-5	N.D.	0.39	mg/kg	1
01216	PCBs in Solids					
01496	PCB-1221	11104-28-2	N.D.	3.6	ug/kg	1
01497	PCB-1232	11141-16-5	N.D.	3.6	ug/kg	1
01498	PCB-1242	53469-21-9	N.D.	3.6	ug/kg	1
01499	PCB-1248	12672-29-6	N.D.	3.6	ug/kg	1
01500	PCB-1254	11097-69-1	N.D.	3.6	ug/kg	1
01501	PCB-1260	11096-82-5	15.	3.6	ug/kg	1
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.						
04688	TCL SW846 Semivolatiles Soil					
03755	1,2-Dichlorobenzene	95-50-1	N.D.	36.	ug/kg	1
04693	4-Chloroaniline	106-47-8	N.D.	36.	ug/kg	1
04694	2-Methylnaphthalene	91-57-6	N.D.	36.	ug/kg	1
04689	TCL SW846 Semivolatiles/Soil					
01195	Pyrene	129-00-0	1,500.	36.	ug/kg	1
03776	Anthracene	120-12-7	280.	36.	ug/kg	1
03778	Fluoranthene	206-44-0	1,800.	36.	ug/kg	1
03781	Benzo(a)anthracene	56-55-3	930.	36.	ug/kg	1
03782	Chrysene	218-01-9	1,100.	36.	ug/kg	1
03786	Benzo(b)fluoranthene	205-99-2	1,100.	36.	ug/kg	1
03787	Benzo(k)fluoranthene	207-08-9	580.	36.	ug/kg	1
03788	Benzo(a)pyrene	50-32-8	890.	36.	ug/kg	1
03789	Indeno(1,2,3-cd)pyrene	193-39-5	650.	36.	ug/kg	1

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Lancaster Laboratories Sample No. SW 3942191

Collected: 11/15/2002 09:15 by TM

Account Number: 04285

Submitted: 11/18/2002 20:00

Ciba Specialty Chemicals Corp
Bldg 743 -Route 37 West
P.O. Box 71
Toms River NJ 08754-0071

Reported: 12/11/2002 at 12:23

Discard: 02/10/2003

SD-00M-0-2 Composite Sediment Sample

Pawtuxet River Sediment, RI

PROM0

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
03790	Dibenz(a,h)anthracene	53-70-3	200.	36.	ug/kg	1
03791	Benzo(g,h,i)perylene	191-24-2	660.	36.	ug/kg	1
05441	EPA SW846/8260 (soil)					
05466	Toluene	108-88-3	N.D.	1.	ug/kg	1
05472	Chlorobenzene	108-90-7	N.D.	1.	ug/kg	1
05442	EPA SW846/8260 (soil) cont					
05475	m+p-Xylene	1330-20-7	N.D.	1.	ug/kg	1
05476	c-Xylene	95-47-6	N.D.	1.	ug/kg	1
07103	Grain Size to 1 um					
07135	75 mm	n.a.	100.	0.50	%	1
07136	37.5 mm	n.a.	100.	0.50	% Passing	1
07137	19 mm	n.a.	100.	0.50	% Passing	1
07138	4.75 mm	n.a.	98.0	0.50	% Passing	1
07139	3.35 mm	n.a.	95.2	0.50	% Passing	1
07140	2.36 mm	n.a.	89.0	0.50	% Passing	1
07141	1.18 mm	n.a.	71.8	0.50	% Passing	1
07142	0.6 mm	n.a.	40.6	0.50	% Passing	1
07143	0.3 mm	n.a.	9.9	0.50	% Passing	1
07144	0.15 mm	n.a.	4.1	0.50	% Passing	1
07145	0.075 mm	n.a.	3.6	0.50	% Passing	1
07146	0.064 mm	n.a.	4.0	0.50	% Passing	1
07147	0.05 mm	n.a.	3.5	0.50	% Passing	1
07148	0.02 mm	n.a.	2.0	0.50	% Passing	1
07149	0.005 mm	n.a.	N.D.	0.50	% Passing	1
07150	0.002 mm	n.a.	N.D.	0.50	% Passing	1
07151	0.001 mm	n.a.	N.D.	0.50	% Passing	1



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Lancaster Laboratories Sample No. SW 3942191

Collected: 11/15/2002 09:15 by TM

Account Number: 04285

Submitted: 11/18/2002 20:00

Ciba Specialty Chemicals Corp
Bldg 743 -Route 37 West
P.O. Box 71
Toms River NJ 08754-0071

Reported: 12/11/2002 at 12:23

Discard: 02/10/2003

SD-00M-0-2 Composite Sediment Sample

Pawtuxet River Sediment, RI

PROMO

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
						Passing

The hydrometer values (particle sizes 0.064 mm to 0.001 mm) are interpolated from the plotted data.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Date and Time	Analysis Analyst	Dilutio Factor
01625	Thallium	SW-846 6010B	1	11/21/2002 16:07	Damary Valentin	1
01649	Cadmium	SW-846 6010B	1	11/21/2002 16:07	Damary Valentin	1
01653	Copper	SW-846 6010B	1	11/21/2002 16:07	Damary Valentin	1
01655	Lead	SW-846 6010B	1	11/21/2002 16:07	Damary Valentin	1
01672	Zinc	SW-846 6010B	1	11/21/2002 16:07	Damary Valentin	1
00111	Moisture	EPA 160.3 modified	1	11/19/2002 15:48	Scott W Freisher	1
02079	TOC Solids/Sludges Combustion	SM18 5310B, modified	1	11/26/2002 16:06	Timothy M Petree	1
05895	Total Cyanide (solid)	SW-846 9012A	1	11/22/2002 14:13	Nicole M Kepley	1
01216	PCBs in Solids	SW-846 8082	1	11/22/2002 12:41	Tiffany A Leyda	1
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	11/22/2002 17:37	Mark A Ratcliff	1
04689	TCL SW846 Semivolatiles/Soil	SW-846 8270C	1	11/22/2002 17:37	Mark A Ratcliff	1
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	11/20/2002 01:41	Ryan V Nolt	1
05442	EPA SW846/8260 (soil) cont	SW-846 8260B	1	11/20/2002 01:41	Ryan V Nolt	1
07103	Grain Size to 1 um	ASTM D-422	1	11/22/2002 12:00	Catherine L Cammauf	1
00374	GC/MS VOA Soil Prep	SW-846 5030A	1	11/19/2002 21:18	Ryan V Nolt	n.a.
00381	BNA Soil Extraction	SW-846 3550B	1	11/19/2002 19:10	Amy M Strocko	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/20/2002 00:15	David V Hershey Jr	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	11/20/2002 18:16	Charles R Looper	1
05896	Cyanide Solid Distillation	SW-846 9012A, mod.	1	11/21/2002 10:40	Cheryl L Robinson	1



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PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681



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Lancaster Laboratories Sample No. SW 3942192

Collected: 11/15/2002 09:15 by TM

Account Number: 04285

Submitted: 11/18/2002 20:00

Ciba Specialty Chemicals Corp
Bldg 743 -Route 37 West
P.O. Box 71
Toms River NJ 08754-0071

Reported: 12/11/2002 at 12:23

Discard: 02/10/2003

SD-00M-2-4 Composite Sediment Sample

Pawtuxet River Sediment, RI

PR0M2

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method	Dilution Factor
				Detection Limit	Units
01625	Thallium	7440-28-0	N.D.	1.1	mg/kg
01649	Cadmium	7440-43-9	0.14	0.099	mg/kg
01653	Copper	7440-50-8	15.5	0.17	mg/kg
01655	Lead	7439-92-1	19.6	1.0	mg/kg
01672	Zinc	7440-66-6	48.3	0.39	mg/kg
00111	Moisture	n.a.	9.69	0.50	%
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
02079	TOC Solids/Sludges Combustion	n.a.	2,060.	330.	mg/kg
05895	Total Cyanide (solid)	57-12-5	N.D.	0.20	mg/kg
01216	PCBs in Solids				
01496	PCB-1221	11104-28-2	N.D.	18.	ug/kg
01497	PCB-1232	11141-16-5	N.D.	18.	ug/kg
01498	PCB-1242	53469-21-9	N.D.	18.	ug/kg
01499	PCB-1248	12672-29-6	N.D.	18.	ug/kg
01500	PCB-1254	11097-69-1	N.D.	18.	ug/kg
01501	PCB-1260	11096-82-5	350.	18.	ug/kg
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.					
04688	TCL SW846 Semivolatiles Soil				
03755	1,2-Dichlorobenzene	95-50-1	N.D.	190.	ug/kg
04693	4-Chloroaniline	106-47-8	N.D.	190.	ug/kg
04694	2-Methylnaphthalene	91-57-6	N.D.	190.	ug/kg
04689	TCL SW846 Semivolatiles/Soil				
01195	Pyrene	129-00-0	620.	190.	ug/kg
03776	Anthracene	120-12-7	N.D.	190.	ug/kg
03778	Fluoranthene	206-44-0	790.	190.	ug/kg
03781	Benzo(a)anthracene	56-55-3	300.	190.	ug/kg
03782	Chrysene	218-01-9	410.	190.	ug/kg
03786	Benzo(b)fluoranthene	205-99-2	430.	190.	ug/kg
03787	Benzo(k)fluoranthene	207-08-9	N.D.	190.	ug/kg
03788	Benzo(a)pyrene	50-32-8	280.	190.	ug/kg
03789	Indeno(1,2,3-cd)pyrene	193-39-5	200.	190.	ug/kg



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Lancaster Laboratories Sample No. SW 3942192

Collected: 11/15/2002 09:15 by TM

Account Number: 04285

Submitted: 11/18/2002 20:00

Ciba Specialty Chemicals Corp
Bldg 743 -Route 37 West
P.O. Box 71
Toms River NJ 08754-0071

Reported: 12/11/2002 at 12:23

Discard: 02/10/2003

SD-00M-2-4 Composite Sediment Sample

Pawtuxet River Sediment, RI

PR0M2

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
03790	Dibenz(a,h)anthracene	53-70-3	N.D.	190.	ug/kg	5
03791	Benzo(g,h,i)perylene	191-24-2	220.	190.	ug/kg	5
The reporting limits for the GC/MS semivolatile compounds were raised due to the high concentration of non-target compounds.						
05441	EPA SW846/8260 (soil)					
05466	Toluene	108-88-3	N.D.	1.	ug/kg	1
05472	Chlorobenzene	108-90-7	N.D.	1.	ug/kg	1
05442	EPA SW846/8260 (soil) cont					
05475	m+p-Xylene	1330-20-7	N.D.	1.	ug/kg	1
05476	o-Xylene	95-47-6	N.D.	1.	ug/kg	1
07103	Grain Size to 1 um					
07135	75 mm	n.a.	100.	0.50	% Passing	1
07136	37.5 mm	n.a.	100.	0.50	% Passing	1
07137	19 mm	n.a.	100.	0.50	% Passing	1
07138	4.75 mm	n.a.	98.7	0.50	% Passing	1
07139	3.35 mm	n.a.	96.3	0.50	% Passing	1
07140	2.36 mm	n.a.	90.2	0.50	% Passing	1
07141	1.18 mm	n.a.	75.8	0.50	% Passing	1
07142	0.6 mm	n.a.	45.0	0.50	% Passing	1
07143	0.3 mm	n.a.	10.6	0.50	% Passing	1
07144	0.15 mm	n.a.	3.5	0.50	% Passing	1
07145	0.075 mm	n.a.	2.8	0.50	% Passing	1
07146	0.064 mm	n.a.	3.0	0.50	% Passing	1
07147	0.05 mm	n.a.	2.5	0.50	% Passing	1
07148	0.02 mm	n.a.	2.0	0.50	% Passing	1
07149	0.005 mm	n.a.	N.D.	0.50	% Passing	1



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Lancaster Laboratories Sample No. SW 3942192

Collected: 11/15/2002 09:15 by TM

Account Number: 04285

Submitted: 11/18/2002 20:00

Ciba Specialty Chemicals Corp
Bldg 743 -Route 37 West
P.O. Box 71
Toms River NJ 08754-0071

Reported: 12/11/2002 at 12:23

Discard: 02/10/2003

SD-00M-2-4 Composite Sediment Sample

Pawtuxet River Sediment, RI

PR0M2

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
07150	0.002 mm	n.a.	N.D.	0.50	%	1
07151	0.001 mm	n.a.	N.D.	0.50	%	1

The hydrometer values (particle sizes 0.064 mm to 0.001 mm) are interpolated from the plotted data.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Date and Time	Analysis	Analyst	Dilution Factor
01625	Thallium	SW-846 6010B	1	11/21/2002 16:12		Damary Valentin	1
01649	Cadmium	SW-846 6010B	1	11/21/2002 16:12		Damary Valentin	1
01653	Copper	SW-846 6010B	1	11/21/2002 16:12		Damary Valentin	1
01655	Lead	SW-846 6010B	1	11/21/2002 16:12		Damary Valentin	1
01672	Zinc	SW-846 6010B	1	11/21/2002 16:12		Damary Valentin	1
00111	Moisture	EPA 160.3 modified	1	11/19/2002 15:48		Scott W Freisher	1
02079	TOC Solids/Sludges Combustion	SM18 5310B, modified	1	11/26/2002 15:12		Timothy M Petree	1
05895	Total Cyanide (solid)	SW-846 9012A	1	11/22/2002 14:17		Nicole M Kepley	1
01216	PCBs in Solids	SW-846 8082	1	11/22/2002 13:04		Tiffany A Leyda	5
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	11/23/2002 11:59		Brian K Graham	5
04689	TCL SW846 Semivolatiles/Soil	SW-846 8270C	1	11/23/2002 11:59		Brian K Graham	5
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	11/20/2002 01:08		Ryan V Nolt	1
05442	EPA SW846/8260 (soil) cont	SW-846 8260B	1	11/20/2002 01:08		Ryan V Nolt	1
07103	Grain Size to 1 um	ASTM D-422	1	11/22/2002 12:00		Catherine L Cammauf	1
00374	GC/MS VOA Soil Prep	SW-846 5030A	1	11/19/2002 21:18		Ryan V Nolt	n.a.
00381	BNA Soil Extraction	SW-846 3550B	1	11/22/2002 17:45		Amy M Strocko	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/20/2002 00:15		David V Hershey Jr	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	11/20/2002 18:16		Charles R Looper	1
05896	Cyanide Solid Distillation	SW-846 9012A, mod.	1	11/21/2002 10:40		Cheryl L Robinson	1



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Lancaster Laboratories Sample No. SW 3942193

Collected: 11/15/2002 09:15 by TM

Account Number: 04285

Submitted: 11/18/2002 20:00

Ciba Specialty Chemicals Corp

Reported: 12/11/2002 at 12:23

Bldg 743 -Route 37 West

Discard: 02/10/2003

P.O. Box 71

SD-00M-4-6 Composite Sediment Sample

Toms River NJ 08754-0071

Pawtuxet River Sediment, RI

PR0M4

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
	01625	Thallium	7440-28-0	N.D.	1.1	mg/kg	1
	01649	Cadmium	7440-43-9	0.11	0.099	mg/kg	1
	01653	Copper	7440-50-8	34.2	0.17	mg/kg	1
	01655	Lead	7439-92-1	117.	1.0	mg/kg	1
	01672	Zinc	7440-66-6	40.1	0.39	mg/kg	1
	00111	Moisture	n.a.	8.53	0.50	%	1
		"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
	02079	TOC Solids/Sludges Combustion	n.a.	4,660.	350.	mg/kg	1
	05895	Total Cyanide (solid)	57-12-5	N.D.	0.19	mg/kg	1
	01216	PCBs in Solids					
	01496	PCB-1221	11104-28-2	N.D.	36.	ug/kg	10
	01497	PCB-1232	11141-16-5	N.D.	36.	ug/kg	10
	01498	PCB-1242	53469-21-9	N.D.	36.	ug/kg	10
	01499	PCB-1248	12672-29-6	N.D.	36.	ug/kg	10
	01500	PCB-1254	11097-69-1	N.D.	36.	ug/kg	10
	01501	PCB-1260	11096-82-5	61.	36.	ug/kg	10
		The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.					
	04688	TCL SW846 Semivolatiles Soil					
	03755	1,2-Dichlorobenzene	95-50-1	N.D.	190.	ug/kg	5
	04693	4-Chloroaniline	106-47-8	N.D.	190.	ug/kg	5
	04694	2-Methylnaphthalene	91-57-6	N.D.	190.	ug/kg	5
	04689	TCL SW846 Semivolatiles/Soil					
	01195	Pyrene	129-00-0	5,300.	190.	ug/kg	5
	03776	Anthracene	120-12-7	1,200.	190.	ug/kg	5
	03778	Fluoranthene	206-44-0	6,100.	190.	ug/kg	5
	03781	Benzo(a)anthracene	56-55-3	2,400.	190.	ug/kg	5
	03782	Chrysene	218-01-9	2,500.	190.	ug/kg	5
	03786	Benzo(b)fluoranthene	205-99-2	2,500.	190.	ug/kg	5
	03787	Benzo(k)fluoranthene	207-08-9	1,100.	190.	ug/kg	5
03788	Benzo(a)pyrene	50-32-8	2,000.	190.	ug/kg	5
03789	Indeno(1,2,3-cd)pyrene	193-39-5	1,400.	190.	ug/kg	5



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Lancaster Laboratories Sample No. SW 3942193

Collected: 11/15/2002 09:15 by TM

Account Number: 04285

Submitted: 11/18/2002 20:00

Ciba Specialty Chemicals Corp
Bldg 743 -Route 37 West
P.O. Box 71
Toms River NJ 08754-0071

Reported: 12/11/2002 at 12:23

Discard: 02/10/2003

SD-00M-4-6 Composite Sediment Sample

Pawtuxet River Sediment, RI

PR0M4

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
03790	Dibenz(a,h)anthracene	53-70-3	400.	190.	ug/kg	5
03791	Benzo(g,h,i)perylene	191-24-2	1,400.	190.	ug/kg	5
The reporting limits for the GC/MS semivolatile compounds were raised due to the high concentration of non-target compounds.						
05441	EPA SW846/8260 (soil)					
05466	Toluene	108-88-3	N.D.	1.	ug/kg	1
05472	Chlorobenzene	108-90-7	N.D.	1.	ug/kg	1
05442	EPA SW846/8260 (soil) cont					
05475	m+p-Xylene	1330-20-7	N.D.	1.	ug/kg	1
05476	o-Xylene	95-47-6	N.D.	1.	ug/kg	1
07103	Grain Size to 1 um					
07135	75 mm	n.a.	100.	0.50	% Passing	1
07136	37.5 mm	n.a.	100.	0.50	% Passing	1
07137	19 mm	n.a.	99.8	0.50	% Passing	1
07138	4.75 mm	n.a.	94.5	0.50	% Passing	1
07139	3.35 mm	n.a.	87.9	0.50	% Passing	1
07140	2.36 mm	n.a.	77.3	0.50	% Passing	1
07141	1.18 mm	n.a.	62.1	0.50	% Passing	1
07142	0.6 mm	n.a.	37.8	0.50	% Passing	1
07143	0.3 mm	n.a.	8.8	0.50	% Passing	1
07144	0.15 mm	n.a.	1.9	0.50	% Passing	1
07145	0.075 mm	n.a.	0.90	0.50	% Passing	1
07146	0.064 mm	n.a.	1.0	0.50	% Passing	1
07147	0.05 mm	n.a.	1.5	0.50	% Passing	1
07148	0.02 mm	n.a.	2.0	0.50	% Passing	1
07149	0.005 mm	n.a.	N.D.	0.50	% Passing	1



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Lancaster Laboratories Sample No. SW 3942193

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Ciba Specialty Chemicals Corp
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Toms River NJ 08754-0071

Reported: 12/11/2002 at 12:23

Discard: 02/10/2003

SD-00M-4-6 Composite Sediment Sample

Pawtuxet River Sediment, RI

PR0M4

CAT	No.	Analysis Name	CAS Number	Dry Result	Dry Method	Dilution Factor
					Detection Limit	Units
	07150	0.002 mm	n.a.	N.D.	0.50	%
	07151	0.001 mm	n.a.	N.D.	0.50	%

The hydrometer values (particle sizes 0.064 mm to 0.001 mm) are interpolated from the plotted data.

Laboratory Chronicle

CAT	No.	Analysis Name	Method	Trial#	Date and Time	Analysis	Dilution Factor
	01625	Thallium	SW-846 6010B	1	11/21/2002 16:17	Damary Valentin	1
	01649	Cadmium	SW-846 6010B	1	11/21/2002 16:17	Damary Valentin	1
	01653	Copper	SW-846 6010B	1	11/21/2002 16:17	Damary Valentin	1
	01655	Lead	SW-846 6010B	1	11/21/2002 16:17	Damary Valentin	1
	01672	Zinc	SW-846 6010B	1	11/21/2002 16:17	Damary Valentin	1
	00111	Moisture	EPA 160.3 modified	1	11/19/2002 15:48	Scott W Freisher	1
	02079	TOC Solids/Sludges Combustion	SM18 5310B, modified	1	11/26/2002 15:19	Timothy M Petree	1
	05895	Total Cyanide (solid)	SW-846 9012A	1	11/27/2002 12:26	Nicole M Kepley	1
	01216	PCBs in Solids	SW-846 8082	1	11/22/2002 13:26	Tiffany A Leyda	10
	04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	11/23/2002 13:01	Brian K Graham	5
	04689	TCL SW846 Semivolatiles/Soil	SW-846 8270C	1	11/23/2002 13:01	Brian K Graham	5
	05441	EPA SW846/8260 (soil)	SW-846 8260B	1	11/19/2002 22:18	Ryan V Nolt	1
	05442	EPA SW846/8260 (soil) cont	SW-846 8260B	1	11/19/2002 22:18	Ryan V Nolt	1
	07103	Grain Size to 1 um	ASTM D-422	1	11/22/2002 12:00	Catherine L Cammauf	1
	00374	GC/MS VOA Soil Prep	SW-846 5030A	1	11/19/2002 21:13	Ryan V Nolt	n.a.
	00381	BNA Soil Extraction	SW-846 3550B	1	11/22/2002 17:45	Amy M Strocko	1
	00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/20/2002 00:15	David V Hershey Jr	1
	05708	SW SW846 ICP Digest	SW-846 3050B	1	11/20/2002 18:16	Charles R Looper	1
	05896	Cyanide Solid Distillation	SW-846 9012A, mod.	1	11/21/2002 10:40	Cheryl L Robinson	1



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Lancaster Laboratories Sample No. SW 3942194

Collected: 11/15/2002 09:15 by TM

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Ciba Specialty Chemicals Corp
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P.O. Box 71
Toms River NJ 08754-0071

Reported: 12/11/2002 at 12:24

Discard: 02/10/2003

SD-00M-6-12 Composite Sediment Sample

Pawtuxet River Sediment, RI

PR0M6

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
01625	Thallium	7440-28-0	N.D.	1.0	mg/kg	1
01649	Cadmium	7440-43-9	N.D.	0.096	mg/kg	1
01653	Copper	7440-50-8	15.5	0.17	mg/kg	1
01655	Lead	7439-92-1	15.9	0.99	mg/kg	1
01672	Zinc	7440-66-6	52.5	0.38	mg/kg	1
00111	Moisture	n.a.	6.72	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
02079	TOC Solids/Sludges Combustion	n.a.	840.	240.	mg/kg	1
05895	Total Cyanide (solid)	57-12-5	N.D.	0.19	mg/kg	1
01216	PCBs in Solids					
01496	PCB-1221	11104-28-2	N.D.	3.5	ug/kg	1
01497	PCB-1232	11141-16-5	N.D.	3.5	ug/kg	1
01498	PCB-1242	53469-21-9	N.D.	3.5	ug/kg	1
01499	PCB-1248	12672-29-6	N.D.	3.5	ug/kg	1
01500	PCB-1254	11097-69-1	N.D.	3.5	ug/kg	1
01501	PCB-1260	11096-82-5	6.9	3.5	ug/kg	1
04688	TCL SW846 Semivolatiles Soil					
03755	1,2-Dichlorobenzene	95-50-1	N.D.	180.	ug/kg	5
04693	4-Chloroaniline	106-47-8	N.D.	180.	ug/kg	5
04694	2-Methylnaphthalene	91-57-6	N.D.	180.	ug/kg	5
04689	TCL SW846 Semivolatiles/Soil					
01195	Pyrene	129-00-0	900.	180.	ug/kg	5
03776	Anthracene	120-12-7	N.D.	180.	ug/kg	5
03778	Fluoranthene	206-44-0	950.	180.	ug/kg	5
03781	Benzo(a)anthracene	56-55-3	390.	180.	ug/kg	5
03782	Chrysene	218-01-9	430.	180.	ug/kg	5
03786	Benzo(b)fluoranthene	205-99-2	450.	180.	ug/kg	5
03787	Benzo(k)fluoranthene	207-08-9	N.D.	180.	ug/kg	5
03788	Benzo(a)pyrene	50-32-8	330.	180.	ug/kg	5
03789	Indeno(1,2,3-cd)pyrene	193-39-5	230.	180.	ug/kg	5
03790	Dibenz(a,h)anthracene	53-70-3	N.D.	180.	ug/kg	5
03791	Benzo(g,h,i)perylene	191-24-2	220.	180.	ug/kg	5



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Lancaster Laboratories Sample No. SW 3942194

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Ciba Specialty Chemicals Corp
Bldg 743 -Route 37 West
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Toms River NJ 08754-0071

Reported: 12/11/2002 at 12:24

Discard: 02/10/2003

SD-00M-6-12 Composite Sediment Sample

Pawtuxet River Sediment, RI

PR0M6

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
The reporting limits for the GC/MS semivolatile compounds were raised due to the high concentration of non-target compounds.						
05441	EPA SW846/8260 (soil)					
05466	Toluene	108-88-3	N.D.	1.	ug/kg	1
05472	Chlorobenzene	108-90-7	N.D.	1.	ug/kg	1
05442	EPA SW846/8260 (soil) cont					
05475	m+p-Xylene	1330-20-7	N.D.	1.	ug/kg	1
05476	o-Xylene	95-47-6	N.D.	1.	ug/kg	1
07103	Grain Size to 1 um					
07135	75 mm	n.a.	100.	0.50	% Passing	1
07136	37.5 mm	n.a.	100.	0.50	% Passing	1
07137	19 mm	n.a.	100.	0.50	% Passing	1
07138	4.75 mm	n.a.	94.8	0.50	% Passing	1
07139	3.35 mm	n.a.	86.6	0.50	% Passing	1
07140	2.36 mm	n.a.	74.7	0.50	% Passing	1
07141	1.18 mm	n.a.	55.9	0.50	% Passing	1
07142	0.6 mm	n.a.	25.5	0.50	% Passing	1
07143	0.3 mm	n.a.	3.6	0.50	% Passing	1
07144	0.15 mm	n.a.	0.50	0.50	% Passing	1
07145	0.075 mm	n.a.	N.D.	0.50	% Passing	1
07146	0.064 mm	n.a.	N.D.	0.50	% Passing	1
07147	0.05 mm	n.a.	N.D.	0.50	% Passing	1
07148	0.02 mm	n.a.	N.D.	0.50	% Passing	1
07149	0.005 mm	n.a.	N.D.	0.50	% Passing	1
07150	0.002 mm	n.a.	N.D.	0.50	% Passing	1
07151	0.001 mm	n.a.	N.D.	0.50	% Passing	1



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Lancaster Laboratories Sample No. SW 3942194

Collected: 11/15/2002 09:15 by TM

Account Number: 04285

Submitted: 11/18/2002 20:00

Ciba Specialty Chemicals Corp
Bldg 743 -Route 37 West
P.O. Box 71
Toms River NJ 08754-0071

Reported: 12/11/2002 at 12:24

Discard: 02/10/2003

SD-00M-6-12 Composite Sediment Sample

Pawtuxet River Sediment, RI

PR0M6

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
						Passing

The hydrometer values (particle sizes 0.064 mm to 0.001 mm) are interpolated from the plotted data.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Date and Time	Analysis	Dilutio: Factor
01625	Thallium	SW-846 6010B	1	11/21/2002 16:22	Damary Valentin	1
01649	Cadmium	SW-846 6010B	1	11/21/2002 16:22	Damary Valentin	1
01653	Copper	SW-846 6010B	1	11/21/2002 16:22	Damary Valentin	1
01655	Lead	SW-846 6010B	1	11/21/2002 16:22	Damary Valentin	1
01672	Zinc	SW-846 6010B	1	11/21/2002 16:22	Damary Valentin	1
00111	Moisture	EPA 160.3 modified	1	11/19/2002 15:48	Scott W Freisher	1
02079	TOC Solids/Sludges Combustion	SM18 5310B, modified	1	11/26/2002 15:27	Timothy M Petree	1
05895	Total Cyanide (solid)	SW-846 9012A	1	11/22/2002 14:18	Nicole M Kepley	1
01216	PCBs in Solids	SW-846 8082	1	11/22/2002 13:49	Tiffany A Leyda	1
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	11/23/2002 14:02	Brian K Graham	5
04689	TCL SW846 Semivolatiles/Soil	SW-846 8270C	1	11/23/2002 14:02	Brian K Graham	5
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	11/20/2002 00:04	Ryan V Nolt	1
05442	EPA SW846/8260 (soil) cont	SW-846 8260B	1	11/20/2002 00:04	Ryan V Nolt	1
07103	Grain Size to 1 um	ASTM D-422	1	11/22/2002 12:00	Catherine L Cammauf	1
00374	GC/MS VOA Soil Prep	SW-846 5030A	1	11/19/2002 21:16	Ryan V Nolt	n.a.
00381	BNA Soil Extraction	SW-846 3550B	1	11/22/2002 17:45	Amy M Strocko	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/20/2002 00:15	David V Hershey Jr	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	11/20/2002 18:16	Charles R Looper	1
05896	Cyanide Solid Distillation	SW-846 9012A, mod.	1	11/21/2002 10:40	Cheryl L Robinson	1



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Lancaster Laboratories Sample No. SW 3942182

Collected: 11/14/2002 10:30 by TM

Account Number: 04285

Submitted: 11/18/2002 20:00

Ciba Specialty Chemicals Corp
Bldg 743 -Route 37 West
P.O. Box 71
Toms River NJ 08754-0071

Reported: 12/11/2002 at 12:21

Discard: 02/10/2003

SD-02L-0-6 Composite Sediment Sample

Pawtuxet River Sediment, RI

PR2L0

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
01625	Thallium	7440-28-0	N.D.	1.8	mg/kg	1
01649	Cadmium	7440-43-9	3.4	0.17	mg/kg	1
01653	Copper	7440-50-8	301.	0.30	mg/kg	1
01655	Lead	7439-92-1	135.	1.8	mg/kg	1
01672	Zinc	7440-66-6	705.	0.68	mg/kg	1
00111	Moisture	n.a.	46.8	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
02079	TOC Solids/Sludges Combustion	n.a.	22,000.	4,000.	mg/kg	1
05895	Total Cyanide (solid)	57-12-5	0.56	0.33	mg/kg	1
01216	PCBs in Solids					
01495	PCB-1016	12674-11-2	N.D.	6.2	ug/kg	1
01496	PCB-1221	11104-28-2	N.D.	6.2	ug/kg	1
01497	PCB-1232	11141-16-5	N.D.	6.2	ug/kg	1
01498	PCB-1242	53469-21-9	N.D.	6.2	ug/kg	1
01499	PCB-1248	12672-29-6	N.D.	6.2	ug/kg	1
01500	PCB-1254	11097-69-1	210.	6.2	ug/kg	1
01501	PCB-1260	11096-82-5	N.D.	6.2	ug/kg	1
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.						
04688	TCL SW846 Semivolatiles Soil					
03755	1,2-Dichlorobenzene	95-50-1	N.D.	62.	ug/kg	1
04693	4-Chloroaniline	106-47-8	65.	62.	ug/kg	1
04694	2-Methylnaphthalene	91-57-6	N.D.	62.	ug/kg	1
04689	TCL SW846 Semivolatiles/Soil					
01195	Pyrene	129-00-0	4,100.	62.	ug/kg	1
03776	Anthracene	120-12-7	480.	62.	ug/kg	1
03778	Fluoranthene	206-44-0	3,600.	62.	ug/kg	1
03781	Benzo(a)anthracene	56-55-3	1,800.	62.	ug/kg	1
03782	Chrysene	218-01-9	2,200.	62.	ug/kg	1
03786	Benzo(b)fluoranthene	205-99-2	3,000.	62.	ug/kg	1
03787	Benzo(k)fluoranthene	207-08-9	1,500.	62.	ug/kg	1
03788	Benzo(a)pyrene	50-32-8	2,000.	62.	ug/kg	1

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Lancaster Laboratories Sample No. SW 3942182

Collected: 11/14/2002 10:30 by TM

Account Number: 04285

Submitted: 11/18/2002 20:00

Ciba Specialty Chemicals Corp

Reported: 12/11/2002 at 12:21

Bldg 743 -Route 37 West

Discard: 02/10/2003

P.O. Box 71

SD-02L-0-6 Composite Sediment Sample

Toms River NJ 08754-0071

Pawtuxet River Sediment, RI

PR2L0

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
03789	Indeno(1,2,3-cd)pyrene	193-39-5	1,500.	62.	ug/kg	1
03790	Dibenz(a,h)anthracene	53-70-3	460.	62.	ug/kg	1
03791	Benzo(g,h,i)perylene	191-24-2	1,500.	62.	ug/kg	1
05441	EPA SW846/8260 (soil)					
05466	Toluene	108-88-3	N.D.	4.	ug/kg	2
05472	Chlorobenzene	108-90-7	N.D.	4.	ug/kg	2
05442	EPA SW846/8260 (soil) cont					
05475	m+p-Xylene	1330-20-7	N.D.	4.	ug/kg	2
05476	o-Xylene	95-47-6	N.D.	4.	ug/kg	2
The reporting limits for the GC/MS volatile compounds were raised due to the level of non-target compounds.						
07103	Grain Size to 1 um					
07135	75 mm	n.a.	100.	0.50	% Passing	1
07136	37.5 mm	n.a.	100.	0.50	% Passing	1
07137	19 mm	n.a.	89.1	0.50	% Passing	1
07138	4.75 mm	n.a.	61.0	0.50	% Passing	1
07139	3.35 mm	n.a.	57.5	0.50	% Passing	1
07140	2.36 mm	n.a.	54.8	0.50	% Passing	1
07141	1.18 mm	n.a.	52.0	0.50	% Passing	1
07142	0.6 mm	n.a.	48.9	0.50	% Passing	1
07143	0.3 mm	n.a.	44.4	0.50	% Passing	1
07144	0.15 mm	n.a.	32.4	0.50	% Passing	1
07145	0.075 mm	n.a.	20.8	0.50	% Passing	1
07146	0.064 mm	n.a.	18.0	0.50	% Passing	1
07147	0.05 mm	n.a.	13.5	0.50	% Passing	1
07148	0.02 mm	n.a.	7.0	0.50	% Passing	1
07149	0.005 mm	n.a.	1.5	0.50	% Passing	1



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Lancaster Laboratories Sample No. SW 3942182

Collected: 11/14/2002 10:30 by TM

Account Number: 04285

Submitted: 11/18/2002 20:00

Ciba Specialty Chemicals Corp
Bldg 743 -Route 37 West
P.O. Box 71
Toms River NJ 08754-0071

Reported: 12/11/2002 at 12:21

Discard: 02/10/2003

SD-02L-0-6 Composite Sediment Sample

Pawtuxet River Sediment, RI

PR2L0

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
07150	0.002 mm	n.a.	N.D.	0.50	Passing	1
07151	0.001 mm	n.a.	N.D.	0.50	Passing	1

The hydrometer values (particle sizes 0.064 mm to 0.001 mm) are interpolated from the plotted data.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Date and Time	Analysis	Analyst	Dilution Factor
01625	Thallium	SW-846 6010B	2	11/26/2002 07:49		Donna R Sackett	1
01649	Cadmium	SW-846 6010B	2	11/26/2002 07:49		Donna R Sackett	1
01653	Copper	SW-846 6010B	2	11/26/2002 07:49		Donna R Sackett	1
01655	Lead	SW-846 6010B	2	11/26/2002 07:49		Donna R Sackett	1
01672	Zinc	SW-846 6010B	2	11/26/2002 07:49		Donna R Sackett	1
00111	Moisture	EPA 160.3 modified	1	11/19/2002 15:48		Donna R Sackett	1
02079	TOC Solids/Sludges Combustion	SM18 5310B, modified	1	11/25/2002 16:21		Scott W Freisher	1
05895	Total Cyanide (solid)	SW-846 9012A	1	11/22/2002 14:01		Timothy M Petree	1
01216	PCBs in Solids	SW-846 8082	1	11/25/2002 16:06		Nicole M Kepley	1
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	11/20/2002 20:35		Tiffany A Leyda	1
04689	TCL SW846 Semivolatiles/Soil	SW-846 8270C	1	11/20/2002 20:35		Mark A Ratcliff	1
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	11/20/2002 17:53		Susan McMahon-Luu	2
05442	EPA SW846/8260 (soil) cont	SW-846 8260B	1	11/20/2002 17:53		Susan McMahon-Luu	2
07103	Grain Size to 1 um	ASTM D-422	1	11/22/2002 12:00		Catherine L Cammauf	1
00374	GC/MS VOA Soil Prep	SW-846 5030A	1	11/20/2002 16:57		Ryan V Nolt	n.a.
00381	BNA Soil Extraction	SW-846 3550B	1	11/19/2002 19:10		Amy M Strocko	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	11/23/2002 01:00		Karen L Beyer	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	11/25/2002 11:00		Jayme E Curet	1
05896	Cyanide Solid Distillation	SW-846 9012A, mod.	1	11/21/2002 10:40		Cheryl L Robinson	1



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Lancaster Laboratories Sample No. SW 3942183

Collected: 11/14/2002 10:00 by TM

Account Number: 04285

Submitted: 11/18/2002 20:00

Ciba Specialty Chemicals Corp

Reported: 12/11/2002 at 12:21

Bldg 743 -Route 37 West

Discard: 02/10/2003

P.O. Box 71

SD-02R-0-2 Composite Sediment Sample

Toms River NJ 08754-0071

Pawtuxet River Sediment, RI

PR2R0

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
01625	Thallium	7440-28-0	N.D.	2.0	mg/kg	1
01649	Cadmium	7440-43-9	3.2	0.19	mg/kg	1
01653	Copper	7440-50-8	113.	0.33	mg/kg	1
01655	Lead	7439-92-1	108.	1.9	mg/kg	1
01672	Zinc	7440-66-6	469.	0.73	mg/kg	1
00111	Moisture	n.a.	51.0	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
02079	TOC Solids/Sludges Combustion	n.a.	30,000.	4,300.	mg/kg	1
05895	Total Cyanide (solid)	57-12-5	N.D.	0.35	mg/kg	1
01216	PCBs in Solids					
01495	PCB-1016	12674-11-2	N.D.	130.	ug/kg	20
01496	PCB-1221	11104-28-2	N.D.	130.	ug/kg	20
01497	PCB-1232	11141-16-5	N.D.	130.	ug/kg	20
01498	PCB-1242	53469-21-9	N.D.	130.	ug/kg	20
01499	PCB-1248	12672-29-6	5,600.	130.	ug/kg	20
01500	PCB-1254	11097-69-1	3,300.	130.	ug/kg	20
01501	PCB-1260	11096-82-5	N.D.	130.	ug/kg	20
04688	TCL SW846 Semivolatiles Soil					
03755	1,2-Dichlorobenzene	95-50-1	250.	67.	ug/kg	1
04693	4-Chloroaniline	106-47-8	510.	67.	ug/kg	1
04694	2-Methylnaphthalene	91-57-6	83.	67.	ug/kg	1
04689	TCL SW846 Semivolatiles/Soil					
01195	Pyrene	129-00-0	2,900.	67.	ug/kg	1
03776	Anthracene	120-12-7	400.	67.	ug/kg	1
03778	Fluoranthene	206-44-0	3,000.	67.	ug/kg	1
03781	Benzo(a)anthracene	56-55-3	1,400.	67.	ug/kg	1
03782	Chrysene	218-01-9	2,200.	67.	ug/kg	1
03786	Benzo(b)fluoranthene	205-99-2	2,500.	67.	ug/kg	1
03787	Benzo(k)fluoranthene	207-08-9	1,200.	67.	ug/kg	1
03788	Benzo(a)pyrene	50-32-8	1,500.	67.	ug/kg	1
03789	Indeno(1,2,3-cd)pyrene	193-39-5	1,400.	67.	ug/kg	1
03790	Dibenz(a,h)anthracene	53-70-3	420.	67.	ug/kg	1



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Lancaster Laboratories Sample No. SW 3942183

Collected: 11/14/2002 10:00 by TM

Account Number: 04285

Submitted: 11/18/2002 20:00

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Toms River NJ 08754-0071

Reported: 12/11/2002 at 12:21

Discard: 02/10/2003

SD-02R-0-2 Composite Sediment Sample

Pawtuxet River Sediment, RI

PR2R0

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
03791	Benzo(g,h,i)perylene	191-24-2	1,400.	67.	ug/kg	1
05441	EPA SW846/8260 (soil)					
05466	Toluene	108-88-3	42.	6.	ug/kg	2.5
05472	Chlorobenzene	108-90-7	6,300.	260.	ug/kg	125
05442	EPA SW846/8260 (soil) cont					
05475	m+p-Xylene	1330-20-7	33.	6.	ug/kg	2.5
05476	o-Xylene	95-47-6	39.	6.	ug/kg	2.5
07103	Grain Size to 1 um					
07135	75 mm	n.a.	100.	0.50	% Passing	1
07136	37.5 mm	n.a.	100.	0.50	% Passing	1
07137	19 mm	n.a.	100.	0.50	% Passing	1
07138	4.75 mm	n.a.	95.2	0.50	% Passing	1
07139	3.35 mm	n.a.	94.5	0.50	% Passing	1
07140	2.36 mm	n.a.	93.2	0.50	% Passing	1
07141	1.18 mm	n.a.	91.7	0.50	% Passing	1
07142	0.6 mm	n.a.	89.5	0.50	% Passing	1
07143	0.3 mm	n.a.	84.6	0.50	% Passing	1
07144	0.15 mm	n.a.	51.3	0.50	% Passing	1
07145	0.075 mm	n.a.	21.8	0.50	% Passing	1
07146	0.064 mm	n.a.	18.5	0.50	% Passing	1
07147	0.05 mm	n.a.	14.5	0.50	% Passing	1
07148	0.02 mm	n.a.	7.0	0.50	% Passing	1
07149	0.005 mm	n.a.	3.0	0.50	% Passing	1
07150	0.002 mm	n.a.	2.0	0.50	% Passing	1
07151	0.001 mm	n.a.	2.0	0.50	% Passing	1



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Lancaster Laboratories Sample No. SW 3942183

Collected: 11/14/2002 10:00 by TM

Account Number: 04285

Submitted: 11/18/2002 20:00

Ciba Specialty Chemicals Corp
Bldg 743 -Route 37 West
P.O. Box 71
Toms River NJ 08754-0071

Reported: 12/11/2002 at 12:21

Discard: 02/10/2003

SD-02R-0-2 Composite Sediment Sample

Pawtuxet River Sediment, RI

PR2R0

CAT No.	Analysis Name	CAS Number	Dry Result	Method Detection Limit	Units	Dilution Factor
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The hydrometer values (particle sizes 0.064 mm to 0.001 mm) are interpolated from the plotted data.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Date and Time	Analysis Analyst	Dilution Factor
01625	Thallium	SW-846 6010B	2	11/26/2002 07:54	Donna R Sackett	1
01649	Cadmium	SW-846 6010B	2	11/26/2002 07:54	Donna R Sackett	1
01653	Copper	SW-846 6010B	2	11/26/2002 07:54	Donna R Sackett	1
01655	Lead	SW-846 6010B	2	11/26/2002 07:54	Donna R Sackett	1
01672	Zinc	SW-846 6010B	2	11/26/2002 07:54	Donna R Sackett	1
00111	Moisture	EPA 160.3 modified	1	11/19/2002 15:48	Scott W Freisher	1
02079	TOC Solids/Sludges Combustion	SM18 5310B, modified	1	11/25/2002 16:43	Timothy M Petree	1
05895	Total Cyanide (solid)	SW-846 9012A	1	11/22/2002 14:02	Nicole M Kepley	1
01216	PCBs in Solids	SW-846 8082	1	11/25/2002 16:29	Tiffany A Leyda	20
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	11/21/2002 15:25	Mark A Ratcliff	1
04689	TCL SW846 Semivolatiles/Soil	SW-846 8270C	1	11/21/2002 15:25	Mark A Ratcliff	1
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	11/20/2002 04:25	Ryan V Nolt	2.5
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	11/22/2002 13:37	Susan McMahon-Luu	125
05442	EPA SW846/8260 (soil) cont	SW-846 8260B	1	11/20/2002 04:25	Ryan V Nolt	2.5
07103	Grain Size to 1 um	ASTM D-422	1	11/22/2002 12:00	Catherine L Cammauf	1
00374	GC/MS VOA Soil Prep	SW-846 5030A	1	11/19/2002 21:24	Ryan V Nolt	n.a.
00381	BNA Soil Extraction	SW-846 3550B	1	11/19/2002 19:10	Amy M Strocko	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	11/23/2002 01:00	Karen L Beyer	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	11/25/2002 11:00	Jayme E Curet	1
05896	Cyanide Solid Distillation	SW-846 9012A, mod.	1	11/21/2002 10:40	Cheryl L Robinson	1



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Lancaster Laboratories Sample No. SW 3942184

Collected: 11/14/2002 10:00 by TM

Account Number: 04285

Submitted: 11/18/2002 20:00

Ciba Specialty Chemicals Corp
Bldg 743 -Route 37 West
P.O. Box 71
Toms River NJ 08754-0071

Reported: 12/11/2002 at 12:21

Discard: 02/10/2003

SD-02R-2-4 Composite Sediment Sample

Pawtuxet River Sediment, RI

PR2R2

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
01625	Thallium	7440-28-0	N.D.	2.0	mg/kg	1
01649	Cadmium	7440-43-9	4.5	0.18	mg/kg	1
01653	Copper	7440-50-8	172.	0.32	mg/kg	1
01655	Lead	7439-92-1	161.	1.9	mg/kg	1
01672	Zinc	7440-66-6	789.	0.72	mg/kg	1
00111	Moisture	n.a.	51.9	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
02079	TOC Solids/Sludges Combustion	n.a.	35,000.	4,800.	mg/kg	1
05895	Total Cyanide (solid)	57-12-5	N.D.	0.36	mg/kg	1
01216	PCBs in Solids					
01495	PCB-1016	12674-11-2	N.D.	3,400.	ug/kg	500
01496	PCB-1221	11104-28-2	N.D.	3,400.	ug/kg	500
01497	PCB-1232	11141-16-5	N.D.	3,400.	ug/kg	500
01498	PCB-1242	53469-21-9	N.D.	3,400.	ug/kg	500
01499	PCB-1248	12672-29-6	96,000.	3,400.	ug/kg	500
01500	PCB-1254	11097-69-1	N.D.	3,400.	ug/kg	500
01501	PCB-1260	11096-82-5	N.D.	3,400.	ug/kg	500
Accurate surrogate recoveries could not be determined due to the dilution required for analysis of the sample.						
04688	TCL SW846 Semivolatiles Soil					
03755	1,2-Dichlorobenzene	95-50-1	2,000.	69.	ug/kg	1
04693	4-Chloroaniline	106-47-8	5,000.	69.	ug/kg	1
04694	2-Methylnaphthalene	91-57-6	260.	69.	ug/kg	1
04689	TCL SW846 Semivolatiles/Soil					
01195	Pyrene	129-00-0	3,300.	69.	ug/kg	1
03776	Anthracene	120-12-7	530.	69.	ug/kg	1
03778	Fluoranthene	206-44-0	3,500.	69.	ug/kg	1
03781	Benzo(a)anthracene	56-55-3	1,600.	69.	ug/kg	1
03782	Chrysene	218-01-9	2,500.	69.	ug/kg	1
03786	Benzo(b)fluoranthene	205-99-2	2,700.	69.	ug/kg	1
03787	Benzo(k)fluoranthene	207-08-9	970.	69.	ug/kg	1
03788	Benzo(a)pyrene	50-32-8	1,700.	69.	ug/kg	1

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Lancaster Laboratories Sample No. SW 3942184

Collected: 11/14/2002 10:00 by TM

Account Number: 04285

Submitted: 11/18/2002 20:00

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P.O. Box 71
Toms River NJ 08754-0071

Reported: 12/11/2002 at 12:21

Discard: 02/10/2003

SD-02R-2-4 Composite Sediment Sample

Pawtuxet River Sediment, RI

PR2R2

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
03789	Indeno(1,2,3-cd)pyrene	193-39-5	1,500.	69.	ug/kg	1
03790	Dibenz(a,h)anthracene	53-70-3	440.	69.	ug/kg	1
03791	Benzo(g,h,i)perylene	191-24-2	1,400.	69.	ug/kg	1
05441	EPA SW846/8260 (soil)					
05466	Toluene	108-88-3	36.	6.	ug/kg	2.5
05472	Chlorobenzene	108-90-7	6,700.	260.	ug/kg	125
05442	EPA SW846/8260 (soil) cont					
05475	m+p-Xylene	1330-20-7	24.	6.	ug/kg	2.5
05476	o-Xylene	95-47-6	34.	6.	ug/kg	2.5
07103	Grain Size to 1 um					
07135	75 mm	n.a.	100.	0.50	% Passing	1
07136	37.5 mm	n.a.	100.	0.50	% Passing	1
07137	19 mm	n.a.	99.9	0.50	% Passing	1
07138	4.75 mm	n.a.	97.8	0.50	% Passing	1
07139	3.35 mm	n.a.	96.9	0.50	% Passing	1
07140	2.36 mm	n.a.	95.6	0.50	% Passing	1
07141	1.18 mm	n.a.	94.1	0.50	% Passing	1
07142	0.6 mm	n.a.	91.6	0.50	% Passing	1
07143	0.3 mm	n.a.	83.9	0.50	% Passing	1
07144	0.15 mm	n.a.	47.7	0.50	% Passing	1
07145	0.075 mm	n.a.	21.3	0.50	% Passing	1
07146	0.064 mm	n.a.	18.0	0.50	% Passing	1
07147	0.05 mm	n.a.	14.0	0.50	% Passing	1
07148	0.02 mm	n.a.	6.5	0.50	% Passing	1
07149	0.005 mm	n.a.	3.0	0.50	% Passing	1
07150	0.002 mm	n.a.	1.5	0.50	% Passing	1



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Lancaster Laboratories Sample No. SW 3942184

Collected: 11/14/2002 10:00 by TM

Account Number: 04285

Submitted: 11/18/2002 20:00

Ciba Specialty Chemicals Corp
Bldg 743 -Route 37 West
P.O. Box 71
Toms River NJ 08754-0071

Reported: 12/11/2002 at 12:21

Discard: 02/10/2003

SD-02R-2-4 Composite Sediment Sample

Pawtuxet River Sediment, RI

PR2R2

CAT	No.	Analysis Name	CAS Number	Dry Result	Method Detection Limit	Units	Dilution Factor
	07151	0.001 mm	n.a.	1.5	0.50	% Passing	1

The hydrometer values (particle sizes 0.064 mm to 0.001 mm) are interpolated from the plotted data.

Laboratory Chronicle

CAT	No.	Analysis Name	Method	Analysis	Dilution Factor
				Trial# Date and Time	Analyst
	01625	Thallium	SW-846 6010B	2 11/26/2002 08:00	Donna R Sackett
	01649	Cadmium	SW-846 6010B	2 11/26/2002 08:00	Donna R Sackett
	01653	Copper	SW-846 6010B	2 11/26/2002 08:00	Donna R Sackett
	01655	Lead	SW-846 6010B	2 11/26/2002 08:00	Donna R Sackett
	01672	Zinc	SW-846 6010B	2 11/26/2002 08:00	Donna R Sackett
	00111	Moisture	EPA 160.3 modified	2 11/26/2002 08:00	Donna R Sackett
	02079	TOC Solids/Sludges Combustion	SM18 5310B, modified	1 11/19/2002 15:48	Scott W Freisher
	05895	Total Cyanide (solid)	SW-846 9012A	1 11/22/2002 14:03	Nicole M Kepley
	01216	PCBs in Solids	SW-846 8082	1 11/26/2002 03:20	Tiffany A Leyda
	04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1 11/21/2002 16:13	Mark A Ratcliff
	04689	TCL SW846 Semivolatiles/Soil	SW-846 8270C	1 11/21/2002 16:13	Mark A Ratcliff
	05441	EPA SW846/8260 (soil)	SW-846 8260B	1 11/20/2002 03:52	Ryan V Nolt
	05441	EPA SW846/8260 (soil)	SW-846 8260B	1 11/22/2002 14:06	Susan McMahon-Luu
	05442	EPA SW846/8260 (soil) cont	SW-846 8260B	1 11/20/2002 03:52	Ryan V Nolt
	07103	Grain Size to 1 um	ASTM D-422	1 11/22/2002 12:00	Catherine L Cammauf
	00374	GC/MS VOA Soil Prep	SW-846 5030A	1 11/19/2002 21:23	Ryan V Nolt
	00381	BNA Soil Extraction	SW-846 3550B	1 11/19/2002 19:10	Amy M Strocko
	00819	Solid Sample Pesticide Extract	SW-846 3550B	2 11/23/2002 01:00	Karen L Beyer
	05708	SW SW846 ICP Digest	SW-846 3050B	2 11/25/2002 11:00	Jayme E Curet
	05896	Cyanide Solid Distillation	SW-846 9012A, mod.	1 11/21/2002 10:40	Cheryl L Robinson



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Lancaster Laboratories Sample No. SW 3942185

Collected: 11/14/2002 10:00 by TM

Account Number: 04285

Submitted: 11/18/2002 20:00

Ciba Specialty Chemicals Corp

Reported: 12/11/2002 at 12:22

Bldg 743 -Route 37 West

Discard: 02/10/2003

P.O. Box 71

SD-02R-4-6 Composite Sediment Sample

Toms River NJ 08754-0071

Pawtuxet River Sediment, RI

PR2R4

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
01625	Thallium	7440-28-0	N.D.	1.9	mg/kg	1
01649	Cadmium	7440-43-9	6.7	0.18	mg/kg	1
01653	Copper	7440-50-8	279.	0.32	mg/kg	1
01655	Lead	7439-92-1	204.	1.9	mg/kg	1
01672	Zinc	7440-66-6	1,450.	0.71	mg/kg	1
00111	Moisture	n.a.	50.3	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
02079	TOC Solids/Sludges Combustion	n.a.	38,000.	4,200.	mg/kg	1
05895	Total Cyanide (solid)	57-12-5	0.38	0.36	mg/kg	1
01216	PCBs in Solids					
01495	PCB-1016	12674-11-2	N.D.	660.	ug/kg	100
01496	PCB-1221	11104-28-2	N.D.	660.	ug/kg	100
01497	PCB-1232	11141-16-5	N.D.	660.	ug/kg	100
01498	PCB-1242	53469-21-9	N.D.	660.	ug/kg	100
01499	PCB-1248	12672-29-6	43,000.	660.	ug/kg	100
01500	PCB-1254	11097-69-1	16,000.	660.	ug/kg	100
01501	PCB-1260	11096-82-5	N.D.	660.	ug/kg	100
Accurate surrogate recoveries could not be determined due to the dilution required for analysis of the sample.						
04688	TCL SW846 Semivolatiles Soil					
03755	1,2-Dichlorobenzene	95-50-1	5,700.	66.	ug/kg	1
04693	4-Chloroaniline	106-47-8	7,400.	66.	ug/kg	1
04694	2-Methylnaphthalene	91-57-6	570.	66.	ug/kg	1
04689	TCL SW846 Semivolatiles/Soil					
01195	Pyrene	129-00-0	4,500.	66.	ug/kg	1
03776	Anthracene	120-12-7	1,100.	66.	ug/kg	1
03778	Fluoranthene	206-44-0	4,800.	66.	ug/kg	1
03781	Benzo(a)anthracene	56-55-3	2,300.	66.	ug/kg	1
03782	Chrysene	218-01-9	2,900.	66.	ug/kg	1
03786	Benzo(b)fluoranthene	205-99-2	3,000.	66.	ug/kg	1
03787	Benzo(k)fluoranthene	207-08-9	1,400.	66.	ug/kg	1
03788	Benzo(a)pyrene	50-32-8	2,000.	66.	ug/kg	1



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Lancaster Laboratories Sample No. SW 3942185

Collected: 11/14/2002 10:00 by TM

Account Number: 04285

Submitted: 11/18/2002 20:00

Ciba Specialty Chemicals Corp
Bldg 743 -Route 37 West
P.O. Box 71
Toms River NJ 08754-0071

Reported: 12/11/2002 at 12:22

Discard: 02/10/2003

SD-02R-4-6 Composite Sediment Sample

Pawtuxet River Sediment, RI

PR2R4

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
03789	Indeno(1,2,3-cd)pyrene	193-39-5	1,500.	66.	ug/kg	1
03790	Dibenz(a,h)anthracene	53-70-3	470.	66.	ug/kg	1
03791	Benzo(g,h,i)perylene	191-24-2	1,500.	66.	ug/kg	1
05441	EPA SW846/8260 (soil)					
05466	Toluene	108-88-3	1,200.	250.	ug/kg	125
05472	Chlorobenzene	108-90-7	130,000.	500.	ug/kg	250
05442	EPA SW846/8260 (soil) cont					
05475	m+p-Xylene	1330-20-7	1,000.	250.	ug/kg	125
05476	o-Xylene	95-47-6	510.	250.	ug/kg	125
The GC/MS volatile analysis was performed according to the medium level soil method due to the level of target compounds. Therefore, the reporting limits were raised.						
07103	Grain Size to 1 um					
07135	75 mm	n.a.	100.	0.50	% Passing	1
07136	37.5 mm	n.a.	100.	0.50	% Passing	1
07137	19 mm	n.a.	99.4	0.50	% Passing	1
07138	4.75 mm	n.a.	96.3	0.50	% Passing	1
07139	3.35 mm	n.a.	95.2	0.50	% Passing	1
07140	2.36 mm	n.a.	93.5	0.50	% Passing	1
07141	1.18 mm	n.a.	91.8	0.50	% Passing	1
07142	0.6 mm	n.a.	87.9	0.50	% Passing	1
07143	0.3 mm	n.a.	76.9	0.50	% Passing	1
07144	0.15 mm	n.a.	43.6	0.50	% Passing	1
07145	0.075 mm	n.a.	21.1	0.50	% Passing	1
07146	0.064 mm	n.a.	16.5	0.50	% Passing	1
07147	0.05 mm	n.a.	11.0	0.50	% Passing	1
07148	0.02 mm	n.a.	4.5	0.50	% Passing	1

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Lancaster Laboratories Sample No. SW 3942185

Collected: 11/14/2002 10:00 by TM

Account Number: 04285

Submitted: 11/18/2002 20:00

Ciba Specialty Chemicals Corp
Bldg 743 -Route 37 West
P.O. Box 71
Toms River NJ 08754-0071

Reported: 12/11/2002 at 12:22

Discard: 02/10/2003

SD-02R-4-6 Composite Sediment Sample

Pawtuxet River Sediment, RI

PR2R4

CAT	No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
	07149	0.005 mm	n.a.	2.0	0.50	%	1
	07150	0.002 mm	n.a.	N.D.	0.50	%	1
	07151	0.001 mm	n.a.	N.D.	0.50	%	1

The hydrometer values (particle sizes 0.064 mm to 0.001 mm) are interpolated from the plotted data.

Laboratory Chronicle

CAT	No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Dilution Factor
	01625	Thallium	SW-846 6010B	2	11/26/2002 08:05		Donna R Sackett	1
	01649	Cadmium	SW-846 6010B	2	11/26/2002 08:05		Donna R Sackett	1
	01653	Copper	SW-846 6010B	2	11/26/2002 08:05		Donna R Sackett	1
	01655	Lead	SW-846 6010B	2	11/26/2002 08:05		Donna R Sackett	1
	01672	Zinc	SW-846 6010B	2	11/26/2002 08:05		Donna R Sackett	1
	00111	Moisture	EPA 160.3 modified	1	11/26/2002 08:05		Donna R Sackett	1
	02079	TOC Solids/Sludges	SM18 5310B, modified	1	11/19/2002 15:48		Scott W Freisher	1
		Combustion			11/25/2002 16:58	Timothy M Petree	1
	05895	Total Cyanide (solid)	SW-846 9012A	1	11/22/2002 14:04	Nicole M Kepley	1
	01216	PCBs in Solids	SW-846 8082	1	11/25/2002 17:14	Tiffany A Leyda	100
	04688	TCL SW846 Semivolatiles	SW-846 8270C	1	11/21/2002 17:02	Mark A Ratcliff	1
	04689	Soil	SW-846 8270C	1	11/21/2002 17:02	Mark A Ratcliff	1
	05441	TCL SW846	SW-846 8270C	1	11/21/2002 17:02	Mark A Ratcliff	1
	05441	Semivolatiles/Soil	SW-846 8260B	1	11/22/2002 14:04	Nicole M Kepley	1
	05441	EPA SW846/8260 (soil)	SW-846 8260B	1	11/25/2002 17:14	Tiffany A Leyda	100
	05441	EPA SW846/8260 (soil)	SW-846 8260B	1	11/21/2002 17:02	Mark A Ratcliff	1
	05442	(soil) cont	SW-846 8260B	1	11/20/2002 01:58	Parker D Lindstrom	125
	05442	EPA SW846/8260 (soil) cont	SW-846 8260B	1	11/20/2002 17:21	Susan McMahon-Luu	250
	07103	Grain Size to 1 um	ASTM D-422	1	11/20/2002 01:58	Parker D Lindstrom	125
	00374	GC/MS VOA Soil Prep	SW-846 5030A	1	11/22/2002 12:00	Catherine L Cammauf	1
	00381	BNA Soil Extraction	SW-846 3550B	1	11/19/2002 20:18	Parker D Lindstrom	n.a.
	00819	Solid Sample Pesticide Extract	SW-846 3550B	2	11/19/2002 19:10	Amy M Strocko	1
	00819	Extract	SW-846 3550B	2	11/23/2002 01:00	Karen L Beyer	1
	05708	SW SW846 ICP Digest	SW-846 3050B	2	11/25/2002 11:00		Jayme E Curet	1
	05896	Cyanide Solid Distillation	SW-846 9012A, mod.	1	11/21/2002 10:40	Cheryl L Robinson	1



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Lancaster Laboratories Sample No. SW 3942186

Collected: 11/14/2002 10:00 by TM

Account Number: 04285

Submitted: 11/18/2002 20:00

Ciba Specialty Chemicals Corp
Bldg 743 -Route 37 West
P.O. Box 71
Toms River NJ 08754-0071

Reported: 12/11/2002 at 12:22

Discard: 02/10/2003

SD-02R-6-12 Composite Sediment Sample

Pawtuxet River Sediment, RI

PR2R6

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
01625	Thallium	7440-28-0	N.D.	2.2	mg/kg	1
01649	Cadmium	7440-43-9	11.2	0.20	mg/kg	1
01653	Copper	7440-50-8	468.	0.36	mg/kg	1
01655	Lead	7439-92-1	393.	2.1	mg/kg	1
01672	Zinc	7440-66-6	5,000.	0.81	mg/kg	1
00111	Moisture	n.a.	57.1	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
02079	TOC Solids/Sludges Combustion	n.a.	52,000.	5,200.	mg/kg	1
05895	Total Cyanide (solid)	57-12-5	0.99	0.41	mg/kg	1
01216	PCBs in Solids					
01495	PCB-1016	12674-11-2	N.D.	3,800.	ug/kg	500
01496	PCB-1221	11104-28-2	N.D.	3,800.	ug/kg	500
01497	PCB-1232	11141-16-5	N.D.	3,800.	ug/kg	500
01498	PCB-1242	53469-21-9	N.D.	3,800.	ug/kg	500
01499	PCB-1248	12672-29-6	170,000.	3,800.	ug/kg	500
01500	PCB-1254	11097-69-1	43,000.	3,800.	ug/kg	500
01501	PCB-1260	11096-82-5	N.D.	3,800.	ug/kg	500
Accurate surrogate recoveries could not be determined due to the dilution required for analysis of the sample.						
04688	TCL SW846 Semivolatiles Soil					
03755	1,2-Dichlorobenzene	95-50-1	45,000.	770.	ug/kg	10
04693	4-Chloroaniline	106-47-8	40,000.	770.	ug/kg	10
04694	2-Methylnaphthalene	91-57-6	2,800.	770.	ug/kg	10
04689	TCL SW846 Semivolatiles/Soil					
01195	Pyrene	129-00-0	4,800.	770.	ug/kg	10
03776	Anthracene	120-12-7	880.	770.	ug/kg	10
03778	Fluoranthene	206-44-0	5,500.	770.	ug/kg	10
03781	Benzo(a)anthracene	56-55-3	2,400.	770.	ug/kg	10
03782	Chrysene	218-01-9	3,500.	770.	ug/kg	10
03786	Benzo(b)fluoranthene	205-99-2	4,100.	770.	ug/kg	10
03787	Benzo(k)fluoranthene	207-08-9	1,500.	770.	ug/kg	10
03788	Benzo(a)pyrene	50-32-8	2,600.	770.	ug/kg	10



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Lancaster Laboratories Sample No. SW 3942186

Collected: 11/14/2002 10:00 by TM

Account Number: 04285

Submitted: 11/18/2002 20:00

Ciba Specialty Chemicals Corp
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P.O. Box 71
Toms River NJ 08754-0071

Reported: 12/11/2002 at 12:22

Discard: 02/10/2003

SD-02R-6-12 Composite Sediment Sample

Pawtuxet River Sediment, RI

PR2R6

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
03789	Indeno(1,2,3-cd)pyrene	193-39-5	2,200.	770.	ug/kg	10
03790	Dibenz(a,h)anthracene	53-70-3	N.D.	770.	ug/kg	10
03791	Benzo(g,h,i)perylene	191-24-2	2,100.	770.	ug/kg	10
The reporting limits for the GC/MS semivolatile compounds were raised due to the high concentration of non-target compounds.						
05441	EPA SW846/8260 (soil)					
05466	Toluene	108-88-3	14,000.	290.	ug/kg	125
05472	Chlorobenzene	108-90-7	360,000.	1,500.	ug/kg	625
05442	EPA SW846/8260 (soil) cont					
05475	m+p-Xylene	1330-20-7	3,500.	290.	ug/kg	125
05476	o-Xylene	95-47-6	1,500.	290.	ug/kg	125
The GC/MS volatile analysis was performed according to the medium level soil method due to the level of target compounds. Therefore, the reporting limits were raised.						
07103	Grain Size to 1 um					
07135	75 mm	n.a.	100.	0.50	% Passing	1
07136	37.5 mm	n.a.	100.	0.50	% Passing	1
07137	19 mm	n.a.	100.	0.50	% Passing	1
07138	4.75 mm	n.a.	98.5	0.50	% Passing	1
07139	3.35 mm	n.a.	97.7	0.50	% Passing	1
07140	2.36 mm	n.a.	96.9	0.50	% Passing	1
07141	1.18 mm	n.a.	95.2	0.50	% Passing	1
07142	0.6 mm	n.a.	92.5	0.50	% Passing	1
07143	0.3 mm	n.a.	84.8	0.50	% Passing	1
07144	0.15 mm	n.a.	66.0	0.50	% Passing	1
07145	0.075 mm	n.a.	49.1	0.50	% Passing	1
07146	0.064 mm	n.a.	44.0	0.50	% Passing	1
07147	0.05 mm	n.a.	34.0	0.50	% Passing	1



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Lancaster Laboratories Sample No. SW 3942186

Collected: 11/14/2002 10:00 by TM

Account Number: 04285

Submitted: 11/18/2002 20:00

Ciba Specialty Chemicals Corp
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P.O. Box 71
Toms River NJ 08754-0071

Reported: 12/11/2002 at 12:22

Discard: 02/10/2003

SD-02R-6-12 Composite Sediment Sample

Pawtuxet River Sediment, RI

PR2R6

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
07148	0.02 mm	n.a.	16.0	0.50	Passing	1
07149	0.005 mm	n.a.	4.5	0.50	Passing	1
07150	0.002 mm	n.a.	2.0	0.50	Passing	1
07151	0.001 mm	n.a.	N.D.	0.50	Passing	1

The hydrometer values (particle sizes 0.064 mm to 0.001 mm) are interpolated from the plotted data.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Date and Time	Analysis	Analyst	Dilution Factor
01625	Thallium	SW-846 6010B	2	11/26/2002 08:11		Donna R Sackett	1
01649	Cadmium	SW-846 6010B	2	11/26/2002 08:11		Donna R Sackett	1
01653	Copper	SW-846 6010B	2	11/26/2002 08:11		Donna R Sackett	1
01655	Lead	SW-846 6010B	2	11/26/2002 08:11		Donna R Sackett	1
01672	Zinc	SW-846 6010B	2	11/26/2002 08:11		Donna R Sackett	1
00111	Moisture	EPA 160.3 modified	1	11/19/2002 15:48		Donna R Sackett	1
02079	TOC Solids/Sludges Combustion	SM18 5310B, modified	1	11/25/2002 17:23		Scott W Freisher	1
						Timothy M Petree	1
05895	Total Cyanide (solid)	SW-846 9012A	1	11/22/2002 14:08		Nicole M Kepley	1
01216	PCBs in Solids	SW-846 8082	1	11/25/2002 17:36		Tiffany A Leyda	500
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	11/22/2002 19:14		Mark A Ratcliff	10
04689	TCL SW846 Semivolatiles/Soil	SW-846 8270C	1	11/22/2002 19:14		Mark A Ratcliff	10
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	11/20/2002 17:51		Susan McMahon-Luu	625
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	11/20/2002 18:21		Susan McMahon-Luu	125
05442	EPA SW846/8260 (soil) cont	SW-846 8260B	1	11/20/2002 18:21		Susan McMahon-Luu	125
07103	Grain Size to 1 um	ASTM D-422	1	11/22/2002 12:00		Catherine L Cammauf	1
00374	GC/MS VOA Soil Prep	SW-846 5030A	1	11/20/2002 14:18		Susan McMahon-Luu	n.a.
00381	BNA Soil Extraction	SW-846 3550B	1	11/19/2002 19:10		Amy M Strocko	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	11/23/2002 01:00		Karen L Beyer	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	11/25/2002 11:00		Jayme E Curet	1
05896	Cyanide Solid Distillation	SW-846 9012A, mod.	1	11/21/2002 10:40		Cheryl L Robinson	1



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Lancaster Laboratories Sample No. SW 3942187

Collected: 11/14/2002 09:00 by TM

Account Number: 04285

Submitted: 11/18/2002 20:00

Ciba Specialty Chemicals Corp
Bldg 743 -Route 37 West
P.O. Box 71
Toms River NJ 08754-0071

Reported: 12/11/2002 at 12:22

Discard: 02/10/2003

SD-03L-0-6 Composite Sediment Sample

Pawtuxet River Sediment, RI

PR3L0

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
01625	Thallium	7440-28-0	N.D.	1.4	mg/kg	1
01649	Cadmium	7440-43-9	0.31	0.13	mg/kg	1
01653	Copper	7440-50-8	9.6	0.23	mg/kg	1
01655	Lead	7439-92-1	21.4	1.3	mg/kg	1
01672	Zinc	7440-66-6	44.2	0.51	mg/kg	1
00111	Moisture	n.a.	29.0	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
02079	TOC Solids/Sludges Combustion	n.a.	11,900.	1,200.	mg/kg	1
05895	Total Cyanide (solid)	57-12-5	N.D.	0.25	mg/kg	1
01216	PCBs in Solids					
01495	PCB-1016	12674-11-2	N.D.	4.6	ug/kg	1
01496	PCB-1221	11104-28-2	N.D.	4.6	ug/kg	1
01497	PCB-1232	11141-16-5	N.D.	4.6	ug/kg	1
01498	PCB-1242	53469-21-9	N.D.	4.6	ug/kg	1
01499	PCB-1248	12672-29-6	N.D.	4.6	ug/kg	1
01500	PCB-1254	11097-69-1	24.	4.6	ug/kg	1
01501	PCB-1260	11096-82-5	8.3	4.6	ug/kg	1
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.						
04688	TCL SW846 Semivolatiles Soil					
03755	1,2-Dichlorobenzene	95-50-1	N.D.	46.	ug/kg	1
04693	4-Chloroaniline	106-47-8	N.D.	46.	ug/kg	1
04694	2-Methylnaphthalene	91-57-6	N.D.	46.	ug/kg	1
04689	TCL SW846 Semivolatiles/Soil					
01195	Pyrene	129-00-0	470.	46.	ug/kg	1
03776	Anthracene	120-12-7	79.	46.	ug/kg	1
03778	Fluoranthene	206-44-0	500.	46.	ug/kg	1
03781	Benzo(a)anthracene	56-55-3	250.	46.	ug/kg	1
03782	Chrysene	218-01-9	350.	46.	ug/kg	1
03786	Benzo(b)fluoranthene	205-99-2	390.	46.	ug/kg	1
03787	Benzo(k)fluoranthene	207-08-9	150.	46.	ug/kg	1
03788	Benzo(a)pyrene	50-32-8	250.	46.	ug/kg	1



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Lancaster Laboratories Sample No. SW 3942187

Collected: 11/14/2002 09:00 by TM

Account Number: 04285

Submitted: 11/18/2002 20:00

Ciba Specialty Chemicals Corp

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Bldg 743 -Route 37 West

Discard: 02/10/2003

P.O. Box 71

SD-03L-0-6 Composite Sediment Sample

Toms River NJ 08754-0071

Pawtuxet River Sediment, RI

PR3L0

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
03789	Indeno(1,2,3-cd)pyrene	193-39-5	210.	46.	ug/kg	1
03790	Dibenz(a,h)anthracene	53-70-3	70.	46.	ug/kg	1
03791	Benzo(g,h,i)perylene	191-24-2	200.	46.	ug/kg	1
05441	EPA SW846/8260 (soil)					
05466	Toluene	108-88-3	N.D.	1.	ug/kg	1
05472	Chlorobenzene	108-90-7	8.	1.	ug/kg	1
05442	EPA SW846/8260 (soil) cont					
05475	m+p-Xylene	1330-20-7	N.D.	1.	ug/kg	1
05476	o-Xylene	95-47-6	N.D.	1.	ug/kg	1
07103	Grain Size to 1 um					
07135	75 mm	n.a.	100.	0.50	% Passing	1
07136	37.5 mm	n.a.	100.	0.50	% Passing	1
07137	19 mm	n.a.	100.	0.50	% Passing	1
07138	4.75 mm	n.a.	96.3	0.50	% Passing	1
07139	3.35 mm	n.a.	95.6	0.50	% Passing	1
07140	2.36 mm	n.a.	94.5	0.50	% Passing	1
07141	1.18 mm	n.a.	92.3	0.50	% Passing	1
07142	0.6 mm	n.a.	88.6	0.50	% Passing	1
07143	0.3 mm	n.a.	74.2	0.50	% Passing	1
07144	0.15 mm	n.a.	44.4	0.50	% Passing	1
07145	0.075 mm	n.a.	21.6	0.50	% Passing	1
07146	0.064 mm	n.a.	18.0	0.50	% Passing	1
07147	0.05 mm	n.a.	13.5	0.50	% Passing	1
07148	0.02 mm	n.a.	5.5	0.50	% Passing	1
07149	0.005 mm	n.a.	2.5	0.50	% Passing	1
07150	0.002 mm	n.a.	N.D.	0.50	% Passing	1

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Lancaster Laboratories Sample No. SW 3942187

Collected: 11/14/2002 09:00 by TM

Account Number: 04285

Submitted: 11/18/2002 20:00

Ciba Specialty Chemicals Corp
Bldg 743 -Route 37 West
P.O. Box 71
Toms River NJ 08754-0071

Reported: 12/11/2002 at 12:22

Discard: 02/10/2003

SD-03L-0-6 Composite Sediment Sample

Pawtuxet River Sediment, RI

PR3L0

CAT	No.	Analysis Name	CAS Number	Dry Result	Method Detection Limit	Units	Dilution Factor
	07151	0.001 mm	n.a.	N.D.	0.50	% Passing	1

The hydrometer values (particle sizes 0.064 mm to 0.001 mm) are interpolated from the plotted data.

Laboratory Chronicle

CAT	No.	Analysis Name	Method	Analysis Trial#	Date and Time	Analyst	Dilution Factor
	01625	Thallium	SW-846 6010B	2	11/26/2002 05:39	Donna R Sackett	1
	01649	Cadmium	SW-846 6010B	2	11/26/2002 05:39	Donna R Sackett	1
	01653	Copper	SW-846 6010B	2	11/26/2002 05:39	Donna R Sackett	1
	01655	Lead	SW-846 6010B	2	11/26/2002 05:39	Donna R Sackett	1
	01672	Zinc	SW-846 6010B	2	11/26/2002 05:39	Donna R Sackett	1
	00111	Moisture	EPA 160.3 modified	2	11/26/2002 05:39	Donna R Sackett	1
	02079	TOC Solids/Sludges Combustion	SM18 5310B, modified	1	11/19/2002 15:48	Scott W Freisher	1
	05895	Total Cyanide (solid)	SW-846 9012A	1	11/22/2002 14:09	Nicole M Kepley	1
	01216	PCBs in Solids	SW-846 8082	1	11/26/2002 23:23	Tiffany A Leyda	1
	04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	11/21/2002 18:38	Mark A Ratcliff	1
	04689	TCL SW846 Semivolatiles/Soil	SW-846 8270C	1	11/21/2002 18:38	Mark A Ratcliff	1
	05441	EPA SW846/8260 (soil)	SW-846 8260B	1	11/20/2002 14:05	Susan McMahon-Luu	1
	05442	EPA SW846/8260 (soil) cont	SW-846 8260B	1	11/20/2002 14:05	Susan McMahon-Luu	1
	07103	Grain Size to 1 um	ASTM D-422	1	11/22/2002 12:00	Catherine L Cammauf	1
	00374	GC/MS VOA Soil Prep	SW-846 5030A	1	11/20/2002 11:14	Susan McMahon-Luu	n.a.
	00381	BNA Soil Extraction	SW-846 3550B	1	11/19/2002 19:10	Amy M Strocko	1
	00819	Solid Sample Pesticide Extract	SW-846 3550B	2	11/23/2002 01:00	Karen L Beyer	1
	05708	SW SW846 ICP Digest	SW-846 3050B	2	11/25/2002 11:00	Jayme E Curet	1
	05896	Cyanide Solid Distillation	SW-846 9012A, mod.	1	11/21/2002 10:40	Cheryl L Robinson	1



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Lancaster Laboratories Sample No. SW 3942188

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Toms River NJ 08754-0071

Reported: 12/11/2002 at 12:22

Discard: 02/10/2003

SD-03R-0-6 Composite Sediment Sample

Pawtuxet River Sediment, RI

PR3R0

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
01625	Thallium	7440-28-0	N.D.	1.1	mg/kg	1
01649	Cadmium	7440-43-9	N.D.	0.100	mg/kg	1
01653	Copper	7440-50-8	4.5	0.18	mg/kg	1
01655	Lead	7439-92-1	6.4	1.0	mg/kg	1
01672	Zinc	7440-66-6	33.3	0.40	mg/kg	1
00111	Moisture	n.a.	13.3	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
02079	TOC Solids/Sludges Combustion	n.a.	1,230.	150.	mg/kg	1
05895	Total Cyanide (solid)	57-12-5	N.D.	0.21	mg/kg	1
01216	PCBs in Solids					
01495	PCB-1016	12674-11-2	N.D.	3.8	ug/kg	1
01496	PCB-1221	11104-28-2	N.D.	3.8	ug/kg	1
01497	PCB-1232	11141-16-5	N.D.	3.8	ug/kg	1
01498	PCB-1242	53469-21-9	N.D.	3.8	ug/kg	1
01499	PCB-1248	12672-29-6	N.D.	3.8	ug/kg	1
01500	PCB-1254	11097-69-1	25.	3.8	ug/kg	1
01501	PCB-1260	11096-82-5	5.6	3.8	ug/kg	1
04688	TCL SW846 Semivolatiles Soil					
03755	1,2-Dichlorobenzene	95-50-1	N.D.	38.	ug/kg	1
04693	4-Chloroaniline	106-47-8	N.D.	38.	ug/kg	1
04694	2-Methylnaphthalene	91-57-6	N.D.	38.	ug/kg	1
04689	TCL SW846 Semivolatiles/Soil					
01195	Pyrene	129-00-0	52.	38.	ug/kg	1
03776	Anthracene	120-12-7	N.D.	38.	ug/kg	1
03778	Fluoranthene	206-44-0	49.	38.	ug/kg	1
03781	Benzo(a)anthracene	56-55-3	N.D.	38.	ug/kg	1
03782	Chrysene	218-01-9	45.	38.	ug/kg	1
03786	Benzo(b)fluoranthene	205-99-2	54.	38.	ug/kg	1
03787	Benzo(k)fluoranthene	207-08-9	N.D.	38.	ug/kg	1
03788	Benzo(a)pyrene	50-32-8	N.D.	38.	ug/kg	1
03789	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	38.	ug/kg	1
03790	Dibenz(a,h)anthracene	53-70-3	N.D.	38.	ug/kg	1



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Ciba Specialty Chemicals Corp
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SD-03R-0-6 Composite Sediment Sample

Pawtuxet River Sediment, RI

PR3R0

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
03791	Benzo(g,h,i)perylene	191-24-2	N.D.	38.	ug/kg	1
05441	EPA SW846/8260 (soil)					
05466	Toluene	108-88-3	N.D.	1.	ug/kg	1
05472	Chlorobenzene	108-90-7	N.D.	1.	ug/kg	1
05442	EPA SW846/8260 (soil) cont					
05475	m+p-Xylene	1330-20-7	N.D.	1.	ug/kg	1
05476	o-Xylene	95-47-6	N.D.	1.	ug/kg	1
07103	Grain Size to 1 um					
07135	75 mm	n.a.	100.	0.50	% Passing	1
07136	37.5 mm	n.a.	100.	0.50	% Passing	1
07137	19 mm	n.a.	100.	0.50	% Passing	1
07138	4.75 mm	n.a.	98.3	0.50	% Passing	1
07139	3.35 mm	n.a.	96.0	0.50	% Passing	1
07140	2.36 mm	n.a.	90.5	0.50	% Passing	1
07141	1.18 mm	n.a.	64.3	0.50	% Passing	1
07142	0.6 mm	n.a.	36.4	0.50	% Passing	1
07143	0.3 mm	n.a.	14.7	0.50	% Passing	1
07144	0.15 mm	n.a.	4.8	0.50	% Passing	1
07145	0.075 mm	n.a.	1.8	0.50	% Passing	1
07146	0.064 mm	n.a.	2.5	0.50	% Passing	1
07147	0.05 mm	n.a.	3.0	0.50	% Passing	1
07148	0.02 mm	n.a.	3.0	0.50	% Passing	1
07149	0.005 mm	n.a.	N.D.	0.50	% Passing	1
07150	0.002 mm	n.a.	N.D.	0.50	% Passing	1
07151	0.001 mm	n.a.	N.D.	0.50	% Passing	1



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SD-03R-0-6 Composite Sediment Sample

Pawtuxet River Sediment, RI

PR3R0

CAT No.	Analysis Name	CAS Number	Dry Result	Method Detection Limit	Units	Dilution Factor
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The hydrometer values (particle sizes 0.064 mm to 0.001 mm) are interpolated from the plotted data.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis			Dilutio n Factor
			Trial#	Date and Time	Analyst	
01625	Thallium	SW-846 6010B	1	11/21/2002 15:52	Damary Valentin	1
01649	Cadmium	SW-846 6010B	1	11/21/2002 15:52	Damary Valentin	1
01653	Copper	SW-846 6010B	1	11/21/2002 15:52	Damary Valentin	1
01655	Lead	SW-846 6010B	1	11/21/2002 15:52	Damary Valentin	1
01672	Zinc	SW-846 6010B	1	11/21/2002 15:52	Damary Valentin	1
00111	Moisture	EPA 160.3 modified	1	11/19/2002 15:48	Scott W Freisher	1
02079	TOC Solids/Sludges Combustion	SM18 5310B, modified	1	11/25/2002 17:38	Timothy M Petree	1
05895	Total Cyanide (solid)	SW-846 9012A	1	11/22/2002 14:10	Nicole M Kepley	1
01216	PCBs in Solids	SW-846 8082	1	11/26/2002 23:45	Tiffany A Leyda	1
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	11/21/2002 19:26	Mark A Ratcliff	1
04689	TCL SW846 Semivolatiles/Soil	SW-846 8270C	1	11/21/2002 19:26	Mark A Ratcliff	1
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	11/20/2002 02:47	Ryan V Nolt	1
05442	EPA SW846/8260 (soil) cont	SW-846 8260B	1	11/20/2002 02:47	Ryan V Nolt	1
07103	Grain Size to 1 um	ASTM D-422	1	11/22/2002 12:00	Catherine L Cammauf	1
00374	GC/MS VOA Soil Prep	SW-846 5030A	1	11/19/2002 21:20	Ryan V Nolt	n.a.
00381	BNA Soil Extraction	SW-846 3550B	1	11/19/2002 19:10	Amy M Strocko	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	11/23/2002 01:00	Karen L Beyer	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	11/20/2002 18:16	Charles R Looper	1
05896	Cyanide Solid Distillation	SW-846 9012A, mod.	1	11/21/2002 10:40	Cheryl L Robinson	1



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Lancaster Laboratories Sample No. SW 3942189

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Ciba Specialty Chemicals Corp
Bldg 743 -Route 37 West
P.O. Box 71
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Reported: 12/11/2002 at 12:23

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SD-04R-0-6 Composite Sediment Sample

Pawtuxet River Sediment, RI

PR4R0

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
01625	Thallium	7440-28-0	N.D.	3.0	mg/kg	1
01649	Cadmium	7440-43-9	8.5	0.28	mg/kg	1
01653	Copper	7440-50-8	444.	0.49	mg/kg	1
01655	Lead	7439-92-1	270.	2.9	mg/kg	1
01672	Zinc	7440-66-6	1,170.	1.1	mg/kg	1
00111	Moisture	n.a.	67.1	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
02079	TOC Solids/Sludges Combustion	n.a.	54,000.	8,500.	mg/kg	1
05895	Total Cyanide (solid)	57-12-5	0.89	0.55	mg/kg	1
01216	PCBs in Solids					
01495	PCB-1016	12674-11-2	N.D.	200.	ug/kg	20
01496	PCB-1221	11104-28-2	N.D.	200.	ug/kg	20
01497	PCB-1232	11141-16-5	N.D.	200.	ug/kg	20
01498	PCB-1242	53469-21-9	N.D.	200.	ug/kg	20
01499	PCB-1248	12672-29-6	9,800.	200.	ug/kg	20
01500	PCB-1254	11097-69-1	5,800.	200.	ug/kg	20
01501	PCB-1260	11096-82-5	1,900.	200.	ug/kg	20
Accurate surrogate recoveries could not be determined due to the dilution required for analysis of the sample.						
04688	TCL SW846 Semivolatiles Soil					
03755	1,2-Dichlorobenzene	95-50-1	N.D.	1,000.	ug/kg	10
04693	4-Chloroaniline	106-47-8	1,200.	1,000.	ug/kg	10
04694	2-Methylnaphthalene	91-57-6	N.D.	1,000.	ug/kg	10
04689	TCL SW846 Semivolatiles/Soil					
01195	Pyrene	129-00-0	6,200.	1,000.	ug/kg	10
03776	Anthracene	120-12-7	1,000.	1,000.	ug/kg	10
03778	Fluoranthene	206-44-0	7,000.	1,000.	ug/kg	10
03781	Benzo(a)anthracene	56-55-3	3,000.	1,000.	ug/kg	10
03782	Chrysene	218-01-9	4,700.	1,000.	ug/kg	10
03786	Benzo(b)fluoranthene	205-99-2	5,300.	1,000.	ug/kg	10
03787	Benzo(k)fluoranthene	207-08-9	2,300.	1,000.	ug/kg	10
03788	Benzo(a)pyrene	50-32-8	3,400.	1,000.	ug/kg	10


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Ciba Specialty Chemicals Corp

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Bldg 743 -Route 37 West

Discard: 02/10/2003

P.O. Box 71

SD-04R-0-6 Composite Sediment Sample

Toms River NJ 08754-0071

Pawtuxet River Sediment, RI

PR4R0

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
03789	Indeno(1,2,3-cd)pyrene	193-39-5	2,800.	1,000.	ug/kg	10
03790	Dibenz(a,h)anthracene	53-70-3	N.D.	1,000.	ug/kg	10
03791	Benzo(g,h,i)perylene	191-24-2	2,900.	1,000.	ug/kg	10

The reporting limits for the GC/MS semivolatile compounds were raised due to the high concentration of non-target compounds.

05441 EPA SW846/8260 (soil)

05466	Toluene	108-88-3	N.D.	380.	ug/kg	125
05472	Chlorobenzene	108-90-7	660.	380.	ug/kg	125

05442 EPA SW846/8260 (soil) cont

05475	m+p-Xylene	1130-20-7	N.D.	380.	ug/kg	125
05476	o-Xylene	95-47-6	N.D.	380.	ug/kg	125

The GC/MS volatile analysis was performed according to the medium level soil method due to the level of non-target compounds. Therefore, the reporting limits were raised.

Poor surrogate recoveries were observed for the GC/MS volatile fraction. Poor surrogate recoveries were also observed for the matrix spike and matrix spike duplicate analyses, indicating a significant matrix effect.

07103 Grain Size to 1 um

07135	75 mm	n.a.	100.	0.50	% Passing	1
07136	37.5 mm	n.a.	100.	0.50	% Passing	1
07137	19 mm	n.a.	99.0	0.50	% Passing	1
07138	4.75 mm	n.a.	94.1	0.50	% Passing	1
07139	3.35 mm	n.a.	93.1	0.50	% Passing	1
07140	2.36 mm	n.a.	91.6	0.50	% Passing	1
07141	1.18 mm	n.a.	90.2	0.50	% Passing	1
07142	0.6 mm	n.a.	88.5	0.50	% Passing	1
07143	0.3 mm	n.a.	85.9	0.50	% Passing	1
07144	0.15 mm	n.a.	76.3	0.50	% Passing	1



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Lancaster Laboratories Sample No. SW 3942189

Collected: 11/14/2002 08:30 by TM

Account Number: 04285

Submitted: 11/18/2002 20:00

Ciba Specialty Chemicals Corp
Bldg 743 -Route 37 West
P.O. Box 71
Toms River NJ 08754-0071

Reported: 12/11/2002 at 12:23

Discard: 02/10/2003

SD-04R-0-6 Composite Sediment Sample

Pawtuxet River Sediment, RI

PR4R0

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
07145	0.075 mm	n.a.	56.6	0.50	%	1
07146	0.064 mm	n.a.	52.0	0.50	% Passing	1
07147	0.05 mm	n.a.	45.0	0.50	% Passing	1
07148	0.02 mm	n.a.	19.0	0.50	% Passing	1
07149	0.005 mm	n.a.	5.5	0.50	% Passing	1
07150	0.002 mm	n.a.	3.5	0.50	% Passing	1
07151	0.001 mm	n.a.	2.0	0.50	% Passing	1

The hydrometer values (particle sizes 0.064 mm to 0.001 mm) are interpolated from the plotted data.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Dilution Factor
01625	Thallium	SW-846 6010B	1	11/21/2002 15:57	Damary Valentin	1
01649	Cadmium	SW-846 6010B	1	11/21/2002 15:57	Damary Valentin	1
01653	Copper	SW-846 6010B	1	11/21/2002 15:57	Damary Valentin	1
01655	Lead	SW-846 6010B	1	11/21/2002 15:57	Damary Valentin	1
01672	Zinc	SW-846 6010B	1	11/21/2002 15:57	Damary Valentin	1
00111	Moisture	EPA 160.3 modified	1	11/21/2002 15:57	Damary Valentin	1
02079	TOC Solids/Sludges Combustion	SM18 5310B, modified	1	11/19/2002 15:48	Scott W Freisher	1
05895	Total Cyanide (solid)	SW-846 9012A	1	11/22/2002 14:11	Nicole M Kepley	1
01216	PCBs in Solids	SW-846 8082	1	11/25/2002 20:13	Tiffany A Leyda	20
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	11/22/2002 18:25	Mark A Ratcliff	10
04689	TCL SW846 Semivolatiles/Soil	SW-846 8270C	1	11/22/2002 18:25	Mark A Ratcliff	10
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	11/20/2002 19:52	Susan McMahon-Luu	125
05442	EPA SW846/8260 (soil) cont	SW-846 8260B	1	11/20/2002 19:52	Susan McMahon-Luu	125
07103	Grain Size to 1 um	ASTM D-422	1	11/22/2002 12:00	Catherine L Cammauf	1
00374	GC/MS VOA Soil Prep	SW-846 5030A	1	11/20/2002 14:15	Susan McMahon-Luu	n.a.
00381	BNA Soil Extraction	SW-846 3550B	1	11/19/2002 19:10	Amy M Strocko	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	11/23/2002 01:00	Karen L Beyer	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	11/20/2002 18:16	Charles R Looper	1
05896	Cyanide Solid Distillation	SW-846 9012A, mod.	1	11/21/2002 10:40	Cheryl L Robinson	1



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Lancaster Laboratories Sample No. SW 3942189

Collected: 11/14/2002 08:30 by TM

Account Number: 04285

Submitted: 11/18/2002 20:00

Ciba Specialty Chemicals Corp

Reported: 12/11/2002 at 12:23

Bldg 743 -Route 37 West

Discard: 02/10/2003

P.O. Box 71

SD-04R-0-6 Composite Sediment Sample

Toms River NJ 08754-0071

Pawtuxet River Sediment, RI

PR4R0



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Lancaster Laboratories Sample No. SW 3940882

Collected: 11/13/2002 10:30 by TM

Account Number: 04285

Submitted: 11/15/2002 09:15

Ciba Specialty Chemicals Corp
Bldg 743 -Route 37 West
P.O. Box 71
Toms River NJ 08754-0071

Reported: 12/02/2002 at 18:22

Discard: 02/01/2003

SD-05L-0-2 Composite Sediment Sample

Pawtuxet River Sediment, RI

5L02-

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
01625	Thallium	7440-28-0	N.D.	1.9	mg/kg	1
01649	Cadmium	7440-43-9	1.5	0.18	mg/kg	1
01653	Copper	7440-50-8	80.0	0.32	mg/kg	1
01655	Lead	7439-92-1	65.0	1.9	mg/kg	1
01672	Zinc	7440-66-6	187.	0.71	mg/kg	1
00111	Moisture	n.a.	50.3	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
02079	TOC Solids/Sludges Combustion	n.a.	17,000.	3,800.	mg/kg	1
05895	Total Cyanide (solid)	57-12-5	N.D.	0.35	mg/kg	1
01216	PCBs in Solids					
01496	PCB-1221	11104-28-2	N.D.	33.	ug/kg	5
01497	PCB-1232	11141-16-5	N.D.	33.	ug/kg	5
01498	PCB-1242	53469-21-9	N.D.	33.	ug/kg	5
01499	PCB-1248	12672-29-6	830.	33.	ug/kg	5
01500	PCB-1254	11097-69-1	630.	33.	ug/kg	5
01501	PCB-1260	11096-82-5	220.	33.	ug/kg	5
Accurate surrogate recoveries could not be determined due to the dilution required for analysis of the sample.						
04688	TCL SW846 Semivolatiles Soil					
03755	1,2-Dichlorobenzene	95-50-1	N.D.	66.	ug/kg	1
04693	4-Chloroaniline	106-47-8	690.	66.	ug/kg	1
04694	2-Methylnaphthalene	91-57-6	N.D.	66.	ug/kg	1
04689	TCL SW846 Semivolatiles/Soil					
01195	Pyrene	129-00-0	2,800.	66.	ug/kg	1
03776	Anthracene	120-12-7	490.	66.	ug/kg	1
03778	Fluoranthene	206-44-0	2,600.	66.	ug/kg	1
03781	Benzo(a)anthracene	56-55-3	1,200.	66.	ug/kg	1
03782	Chrysene	218-01-9	1,500.	66.	ug/kg	1
03786	Benzo(b)fluoranthene	205-99-2	1,900.	66.	ug/kg	1
03787	Benzo(k)fluoranthene	207-08-9	720.	66.	ug/kg	1
03788	Benzo(a)pyrene	50-32-8	1,300.	66.	ug/kg	1
03789	Indeno(1,2,3-cd)pyrene	193-39-5	910.	66.	ug/kg	1



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Lancaster Laboratories Sample No. SW 3940882

Collected: 11/13/2002 10:30 by TM

Account Number: 04285

Submitted: 11/15/2002 09:15

Ciba Specialty Chemicals Corp
Bldg 743 -Route 37 West
P.O. Box 71
Toms River NJ 08754-0071

Reported: 12/02/2002 at 18:22

Discard: 02/01/2003

SD-05L-0-2 Composite Sediment Sample

Pawtuxet River Sediment, RI

5L02-

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
03790	Dibenz(a,h)anthracene	53-70-3	270.	66.	ug/kg	1
03791	Benzo(g,h,i)perylene	191-24-2	890.	66.	ug/kg	1
05441	EPA SW846/8260 (soil)					
05466	Toluene	108-88-3	6.	2.	ug/kg	1
05472	Chlorobenzene	108-90-7	47.	2.	ug/kg	1
05442	EPA SW846/8260 (soil) cont					
05475	m+p-Xylene	1330-20-7	N.D.	2.	ug/kg	1
05476	o-Xylene	95-47-6	3.	2.	ug/kg	1
07103	Grain Size to 1 um					
07135	75 mm	n.a.	100.	0.50	% Passing	1
07136	37.5 mm	n.a.	100.	0.50	% Passing	1
07137	19 mm	n.a.	100.	0.50	% Passing	1
07138	4.75 mm	n.a.	84.2	0.50	% Passing	1
07139	3.35 mm	n.a.	81.5	0.50	% Passing	1
07140	2.36 mm	n.a.	78.9	0.50	% Passing	1
07141	1.18 mm	n.a.	77.0	0.50	% Passing	1
07142	0.6 mm	n.a.	74.0	0.50	% Passing	1
07143	0.3 mm	n.a.	53.7	0.50	% Passing	1
07144	0.15 mm	n.a.	23.6	0.50	% Passing	1
07145	0.075 mm	n.a.	14.3	0.50	% Passing	1
07146	0.064 mm	n.a.	13.0	0.50	% Passing	1
07147	0.05 mm	n.a.	9.0	0.50	% Passing	1
07148	0.02 mm	n.a.	5.0	0.50	% Passing	1
07149	0.005 mm	n.a.	1.5	0.50	% Passing	1
07150	0.002 mm	n.a.	1.5	0.50	% Passing	1
07151	0.001 mm	n.a.	1.5	0.50	% Passing	1

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Lancaster Laboratories Sample No. SW 3940882

Collected: 11/13/2002 10:30 by TM

Account Number: 04285

Submitted: 11/15/2002 09:15

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Toms River NJ 08754-0071

Reported: 12/02/2002 at 18:22

Discard: 02/01/2003

SD-05L-0-2 Composite Sediment Sample

Pawtuxet River Sediment, RI

5L02-

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
						Passing

The hydrometer values (particle sizes 0.064 mm to 0.001 mm) are interpolated from the plotted data.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Date and Time	Analysis	Analyst	Dilution Factor
01625	Thallium	SW-846 6010B	1	11/20/2002 04:25		Donna R Sackett	1
01649	Cadmium	SW-846 6010B	1	11/20/2002 04:25		Donna R Sackett	1
01653	Copper	SW-846 6010B	1	11/20/2002 04:25		Donna R Sackett	1
01655	Lead	SW-846 6010B	1	11/20/2002 04:25		Donna R Sackett	1
01672	Zinc	SW-846 6010B	1	11/20/2002 04:25		Donna R Sackett	1
00111	Moisture	SW-846 6010B	1	11/20/2002 04:25		Donna R Sackett	1
02079	TOC Solids/Sludges Combustion	EPA 160.3 modified SM18 5310B, modified	1	11/18/2002 09:11		Helen L Schaeffer	1
05895	Total Cyanide (solid)	SW-846 9012A	1	11/22/2002 13:21		Timothy M Petree	1
01216	PCBs in Solids	SW-846 8082	1	11/21/2002 06:52		Nicole M Kepley	1
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	11/20/2002 12:14		Tiffany A Leyda	5
04689	TCL SW846 Semivolatiles/Soil	SW-846 8270C	1	11/20/2002 12:14		Mark A Ratcliff	1
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	11/18/2002 22:42		Ryan V Nolt	1
05442	EPA SW846/8260 (soil) cont	SW-846 8260B	1	11/18/2002 22:42		Ryan V Nolt	1
07103	Grain Size to 1 um	ASTM D-422	1	11/19/2002 14:30		Catherine L Cammauf	1
00374	GC/MS VOA Soil Prep	SW-846 5030A	1	11/18/2002 20:37		Ryan V Nolt	n.a.
00381	BNA Soil Extraction	SW-846 3550B	1	11/19/2002 19:10		Amy M Strocko	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/18/2002 19:00		Luis E Villamil	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	11/19/2002 16:17		Charles R Looper	1
05896	Cyanide Solid Distillation	SW-846 9012A, mod.	1	11/19/2002 09:55		Cheryl L Robinson	1



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Lancaster Laboratories Sample No. SW 3940883

Collected: 11/13/2002 10:30 by TM

Account Number: 04285

Submitted: 11/15/2002 09:15

Ciba Specialty Chemicals Corp
Bldg 743 -Route 37 West
P.O. Box 71
Toms River NJ 08754-0071

Reported: 12/02/2002 at 18:22

Discard: 02/01/2003

SD-05L-2-4 Composite Sediment Sample

Pawtuxet River Sediment, RI

5L24-

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
01625	Thallium	7440-28-0	N.D.	1.6	mg/kg	1
01649	Cadmium	7440-43-9	1.8	0.15	mg/kg	1
01653	Copper	7440-50-8	61.5	0.27	mg/kg	1
01655	Lead	7439-92-1	72.8	1.6	mg/kg	1
01672	Zinc	7440-66-6	147.	0.60	mg/kg	1
00111	Moisture	n.a.	42.0	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
02079	TOC Solids/Sludges Combustion	n.a.	11,000.	3,700.	mg/kg	1
05895	Total Cyanide (solid)	57-12-5	N.D.	0.31	mg/kg	1
01216	PCBs in Solids					
01496	PCB-1221	11104-28-2	N.D.	28.	ug/kg	5
01497	PCB-1232	11141-16-5	N.D.	28.	ug/kg	5
01498	PCB-1242	53469-21-9	N.D.	28.	ug/kg	5
01499	PCB-1248	12672-29-6	290.	28.	ug/kg	5
01500	PCB-1254	11097-69-1	240.	28.	ug/kg	5
01501	PCB-1260	11096-82-5	170.	28.	ug/kg	5
Accurate surrogate recoveries could not be determined due to the dilution required for analysis of the sample.						
04688	TCL SW846 Semivolatiles Soil					
03755	1,2-Dichlorobenzene	95-50-1	N.D.	57.	ug/kg	1
04693	4-Chloroaniline	106-47-8	530.	57.	ug/kg	1
04694	2-Methylnaphthalene	91-57-6	N.D.	57.	ug/kg	1
04689	TCL SW846 Semivolatiles/Soil					
01195	Pyrene	129-00-0	2,300.	57.	ug/kg	1
03776	Anthracene	120-12-7	350.	57.	ug/kg	1
03778	Fluoranthene	206-44-0	2,000.	57.	ug/kg	1
03781	Benzo(a)anthracene	56-55-3	960.	57.	ug/kg	1
03782	Chrysene	218-01-9	1,400.	57.	ug/kg	1
03786	Benzo(b)fluoranthene	205-99-2	1,500.	57.	ug/kg	1
03787	Benzo(k)fluoranthene	207-08-9	580.	57.	ug/kg	1
03788	Benzo(a)pyrene	50-32-8	1,000.	57.	ug/kg	1
03789	Indeno(1,2,3-cd)pyrene	193-39-5	730.	57.	ug/kg	1

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Lancaster Laboratories Sample No. SW 3940883

Collected: 11/13/2002 10:30 by TM

Account Number: 04285

Submitted: 11/15/2002 09:15

Ciba Specialty Chemicals Corp
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P.O. Box 71
Toms River NJ 08754-0071

Reported: 12/02/2002 at 18:22

Discard: 02/01/2003

SD-05L-2-4 Composite Sediment Sample

Pawtuxet River Sediment, RI

5L24-

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
03790	Dibenz(a,h)anthracene	53-70-3	210.	57.	ug/kg	1
03791	Benzo(g,h,i)perylene	191-24-2	770.	57.	ug/kg	1
05441	EPA SW846/8260 (soil)					
05466	Toluene	108-88-3	N.D.	2.	ug/kg	1
05472	Chlorobenzene	108-90-7	32.	2.	ug/kg	1
05442	EPA SW846/8260 (soil) cont					
05475	m+p-Xylene	1330-20-7	N.D.	2.	ug/kg	1
05476	o-Xylene	95-47-6	N.D.	2.	ug/kg	1
07103	Grain Size to 1 um					
07135	75 mm	n.a.	100.	0.50	% Passing	1
07136	37.5 mm	n.a.	100.	0.50	% Passing	1
07137	19 mm	n.a.	82.5	0.50	% Passing	1
07138	4.75 mm	n.a.	74.7	0.50	% Passing	1
07139	3.35 mm	n.a.	73.1	0.50	% Passing	1
07140	2.36 mm	n.a.	71.5	0.50	% Passing	1
07141	1.18 mm	n.a.	69.6	0.50	% Passing	1
07142	0.6 mm	n.a.	66.6	0.50	% Passing	1
07143	0.3 mm	n.a.	42.6	0.50	% Passing	1
07144	0.15 mm	n.a.	12.8	0.50	% Passing	1
07145	0.075 mm	n.a.	6.7	0.50	% Passing	1
07146	0.064 mm	n.a.	7.0	0.50	% Passing	1
07147	0.05 mm	n.a.	6.5	0.50	% Passing	1
07148	0.02 mm	n.a.	5.0	0.50	% Passing	1
07149	0.005 mm	n.a.	2.0	0.50	% Passing	1
07150	0.002 mm	n.a.	N.D.	0.50	% Passing	1
07151	0.001 mm	n.a.	N.D.	0.50	% Passing	1

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Lancaster Laboratories Sample No. SW 3940883

Collected: 11/13/2002 10:30 by TM

Account Number: 04285

Submitted: 11/15/2002 09:15

Ciba Specialty Chemicals Corp

Reported: 12/02/2002 at 18:22

Bldg 743 -Route 37 West

Discard: 02/01/2003

P.O. Box 71

SD-05L-2-4 Composite Sediment Sample

Toms River NJ 08754-0071

Pawtuxet River Sediment, RI

SL24-

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
						Passing

The hydrometer values (particle sizes 0.064 mm to 0.001 mm) are interpolated from the plotted data.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Date and Time	Analysis	Analyst	Dilution Factor
01625	Thallium	SW-846 6010B	2	11/26/2002 06:17		Donna R Sackett	1
01649	Cadmium	SW-846 6010B	2	11/26/2002 06:17		Donna R Sackett	1
01653	Copper	SW-846 6010B	2	11/26/2002 06:17		Donna R Sackett	1
01655	Lead	SW-846 6010B	2	11/26/2002 06:17		Donna R Sackett	1
01672	Zinc	SW-846 6010B	2	11/26/2002 06:17		Donna R Sackett	1
00111	Moisture	EPA 160.3 modified	1	11/18/2002 09:11		Helen L Schaeffer	1
02079	TOC Solids/Sludges Combustion	SM18 5310B, modified	1	11/25/2002 14:56		Timothy M Petree	1
05895	Total Cyanide (solid)	SW-846 9012A	1	11/22/2002 13:22		Nicole M Kepley	1
01216	PCBs in Solids	SW-846 8082	1	11/21/2002 07:15		Tiffany A Leyda	5
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	11/20/2002 13:04		Mark A Ratcliff	1
04689	TCL SW846 Semivolatiles/Soil	SW-846 8270C	1	11/20/2002 13:04		Mark A Ratcliff	1
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	11/18/2002 23:15		Ryan V Nolt	1
05442	EPA SW846/8260 (soil) cont	SW-846 8260B	1	11/18/2002 23:15		Ryan V Nolt	1
07103	Grain Size to 1 um	ASTM D-422	1	11/19/2002 14:30		Catherine L Cammauf	1
00374	GC/MS VOA Soil Prep	SW-846 5030A	1	11/18/2002 20:38		Ryan V Nolt	n.a.
00381	BNA Soil Extraction	SW-846 3550B	1	11/19/2002 19:10		Amy M Strocko	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/18/2002 19:00		Luis E Villamil	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	11/25/2002 11:00		Jayme E Curet	1
05896	Cyanide Solid Distillation	SW-846 9012A, mod.	1	11/19/2002 09:55		Cheryl L Robinson	1



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Lancaster Laboratories Sample No. SW 3940884

Collected: 11/13/2002 10:30 by TM

Account Number: 04285

Submitted: 11/15/2002 09:15

Ciba Specialty Chemicals Corp

Reported: 12/02/2002 at 18:22

Bldg 743 - Route 37 West

Discard: 02/01/2003

P.O. Box 71

SD-05L-4-6 Composite Sediment Sample

Toms River NJ 08754-0071

Pawtuxet River Sediment, RI

5L46-

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
01625	Thallium	7440-28-0	N.D.	1.5	mg/kg	1
01649	Cadmium	7440-43-9	2.1	0.14	mg/kg	1
01653	Copper	7440-50-8	75.6	0.24	mg/kg	1
01655	Lead	7439-92-1	78.1	1.4	mg/kg	1
01672	Zinc	7440-66-6	186.	0.55	mg/kg	1
00111	Moisture	n.a.	36.2	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
02079	TOC Solids/Sludges Combustion	n.a.	18,000.	3,400.	mg/kg	1
05895	Total Cyanide (solid)	57-12-5	1.03	0.27	mg/kg	1
01216	PCBs in Solids					
01496	PCB-1221	11104-28-2	N.D.	26.	ug/kg	5
01497	PCB-1232	11141-16-5	N.D.	26.	ug/kg	5
01498	PCB-1242	53469-21-9	N.D.	26.	ug/kg	5
01499	PCB-1248	12672-29-6	620.	26.	ug/kg	5
01500	PCB-1254	11097-69-1	450.	26.	ug/kg	5
01501	PCB-1260	11096-82-5	210.	26.	ug/kg	5
Accurate surrogate recoveries could not be determined due to the dilution required for analysis of the sample.						
04688	TCL SW846 Semivolatiles Soil					
03755	1,2-Dichlorobenzene	95-50-1	N.D.	52.	ug/kg	1
04693	4-Chloroaniline	106-47-8	1,100.	52.	ug/kg	1
04694	2-Methylnaphthalene	91-57-6	77.	52.	ug/kg	1
04689	TCL SW846 Semivolatiles/Soil					
01195	Pyrene	129-00-0	2,500.	52.	ug/kg	1
03776	Anthracene	120-12-7	410.	52.	ug/kg	1
03778	Fluoranthene	206-44-0	2,000.	52.	ug/kg	1
03781	Benzo(a)anthracene	56-55-3	990.	52.	ug/kg	1
03782	Chrysene	218-01-9	1,300.	52.	ug/kg	1
03786	Benzo(b)fluoranthene	205-99-2	1,400.	52.	ug/kg	1
03787	Benzo(k)fluoranthene	207-08-9	630.	52.	ug/kg	1
03788	Benzo(a)pyrene	50-32-8	980.	52.	ug/kg	1
03789	Indeno(1,2,3-cd)pyrene	193-39-5	710.	52.	ug/kg	1

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Lancaster Laboratories Sample No. SW 3940884

Collected: 11/13/2002 10:30 by TM

Account Number: 04285

Submitted: 11/15/2002 09:15

Ciba Specialty Chemicals Corp
Bldg 743 -Route 37 West
P.O. Box 71
Toms River NJ 08754-0071

Reported: 12/02/2002 at 18:22

Discard: 02/01/2003

SD-05L-4-6 Composite Sediment Sample

Pawtuxet River Sediment, RI

5L46-

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
03790	Dibenz(a,h)anthracene	53-70-3	230.	52.	ug/kg	1
03791	Benzo(g,h,i)perylene	191-24-2	740.	52.	ug/kg	1
05441	EPA SW846/8260 (soil)					
05466	Toluene	108-88-3	N.D.	2.	ug/kg	1
05472	Chlorobenzene	108-90-7	23.	2.	ug/kg	1
05442	EPA SW846/8260 (soil) cont					
05475	m+p-Xylene	1330-20-7	N.D.	2.	ug/kg	1
05476	o-Xylene	95-47-6	2.	2.	ug/kg	1
07103	Grain Size to 1 um					
07135	75 mm	n.a.	100.	0.50	%	1
07136	37.5 mm	n.a.	100.	0.50	% Passing	1
07137	19 mm	n.a.	99.8	0.50	% Passing	1
07138	4.75 mm	n.a.	86.7	0.50	% Passing	1
07139	3.35 mm	n.a.	84.9	0.50	% Passing	1
07140	2.36 mm	n.a.	83.3	0.50	% Passing	1
07141	1.18 mm	n.a.	81.6	0.50	% Passing	1
07142	0.6 mm	n.a.	78.1	0.50	% Passing	1
07143	0.3 mm	n.a.	46.6	0.50	% Passing	1
07144	0.15 mm	n.a.	16.0	0.50	% Passing	1
07145	0.075 mm	n.a.	8.9	0.50	% Passing	1
07146	0.064 mm	n.a.	8.0	0.50	% Passing	1
07147	0.05 mm	n.a.	6.5	0.50	% Passing	1
07148	0.02 mm	n.a.	4.0	0.50	% Passing	1
07149	0.005 mm	n.a.	N.D.	0.50	% Passing	1
07150	0.002 mm	n.a.	N.D.	0.50	% Passing	1
07151	0.001 mm	n.a.	N.D.	0.50	% Passing	1

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Lancaster Laboratories Sample No. SW 3940884

Collected: 11/13/2002 10:30 by TM

Account Number: 04285

Submitted: 11/15/2002 09:15

Ciba Specialty Chemicals Corp
Bldg 743 -Route 37 West
P.O. Box 71
Toms River NJ 08754-0071

Reported: 12/02/2002 at 18:22

Discard: 02/01/2003

SD-05L-4-6 Composite Sediment Sample

Pawtuxet River Sediment, RI

5L46-

CAT	No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
							Passing

The hydrometer values (particle sizes 0.064 mm to 0.001 mm) are interpolated from the plotted data.

Laboratory Chronicle

CAT	No.	Analysis Name	Method	Trial#	Date and Time	Analysis	Analyst	Dilution Factor
01625		Thallium	SW-846 6010B	2	11/26/2002 06:33		Donna R Sackett	1
01649		Cadmium	SW-846 6010B	2	11/26/2002 06:33		Donna R Sackett	1
01653		Copper	SW-846 6010B	2	11/26/2002 06:33		Donna R Sackett	1
01655		Lead	SW-846 6010B	2	11/26/2002 06:33		Donna R Sackett	1
01672		Zinc	SW-846 6010B	2	11/26/2002 06:33		Donna R Sackett	1
00111		Moisture	EPA 160.3 modified	1	11/26/2002 06:33		Donna R Sackett	1
02079		TOC Solids/Sludges Combustion	SM18 5310B, modified	1	11/25/2002 15:03		Helen L Schaeffer	1
05895		Total Cyanide (solid)	SW-846 9012A	1	11/22/2002 13:36		Timothy M Petree	1
01216		PCBs in Solids	SW-846 8082	1	11/21/2002 07:39		Nicole M Kepley	1
04688		TCL SW846 Semivolatiles Soil	SW-846 8270C	1	11/20/2002 13:54		Tiffany A Leyda	5
04689		TCL SW846 Semivolatiles/Soil	SW-846 8270C	1	11/20/2002 13:54		Mark A Ratcliff	1
05441		EPA SW846/8260 (soil)	SW-846 8260B	1	11/18/2002 23:48		Ryan V Nolt	1
05442		EPA SW846/8260 (soil) cont	SW-846 8260B	1	11/18/2002 23:48		Ryan V Nolt	1
07103		Grain Size to 1 um	ASTM D-422	1	11/19/2002 14:30		Catherine L Cammauf	1
00374		GC/MS VOA Soil Prep	SW-846 5030A	1	11/18/2002 20:40		Ryan V Nolt	n.a.
00381		BNA Soil Extraction	SW-846 3550B	1	11/19/2002 19:10		Amy M Strocko	1
00819		Solid Sample Pesticide Extract	SW-846 3550B	1	11/18/2002 19:00		Luis E Villamil	1
05708		SW SW846 ICP Digest	SW-846 3050B	2	11/25/2002 11:00		Jayme E Curet	1
05896		Cyanide Solid Distillation	SW-846 9012A, mod.	1	11/19/2002 09:55		Cheryl L Robinson	1



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Lancaster Laboratories Sample No. SW 3940885

Collected: 11/13/2002 10:30 by TM

Account Number: 04285

Submitted: 11/15/2002 09:15

Ciba Specialty Chemicals Corp

Reported: 12/02/2002 at 18:23

Bldg 743 -Route 37 West

Discard: 02/01/2003

P.O. Box 71

SD-05L-6-12 Composite Sediment Sample

Toms River NJ 08754-0071

Pawtuxet River Sediment, RI

5L612

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
01625	Thallium	7440-28-0	N.D.	1.5	mg/kg	1
01649	Cadmium	7440-43-9	2.2	0.14	mg/kg	1
01653	Copper	7440-50-8	56.6	0.24	mg/kg	1
01655	Lead	7439-92-1	78.3	1.4	mg/kg	1
01672	Zinc	7440-66-6	150.	0.54	mg/kg	1
00111	Moisture	n.a.	35.1	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
02079	TOC Solids/Sludges Combustion	n.a.	80,000.	4,300.	mg/kg	1
05895	Total Cyanide (solid)	57-12-5	N.D.	0.27	mg/kg	1
01216 PCBs in Solids						
01496	PCB-1221	11104-28-2	N.D.	25.	ug/kg	5
01497	PCB-1232	11141-16-5	N.D.	25.	ug/kg	5
01498	PCB-1242	53469-21-9	N.D.	25.	ug/kg	5
01499	PCB-1248	12672-29-6	N.D.	25.	ug/kg	5
01500	PCB-1254	11097-69-1	230.	25.	ug/kg	5
01501	PCB-1260	11096-82-5	170.	25.	ug/kg	5
Accurate surrogate recoveries could not be determined due to the dilution required for analysis of the sample.						
04688	TCL SW846 Semivolatiles Soil					
03755	1, 2-Dichlorobenzene	95-50-1	N.D.	51.	ug/kg	1
04693	4-Chloroaniline	106-47-8	270.	51.	ug/kg	1
04694	2-Methylnaphthalene	91-57-6	330.	51.	ug/kg	1
04689	TCL SW846 Semivolatiles/Soil					
01195	Pyrene	129-00-0	12,000.	260.	ug/kg	5
03776	Anthracene	120-12-7	5,800.	51.	ug/kg	1
03778	Fluoranthene	206-44-0	18,000.	260.	ug/kg	5
03781	Benzo(a)anthracene	56-55-3	8,600.	260.	ug/kg	5
03782	Chrysene	218-01-9	7,900.	260.	ug/kg	5
03786	Benzo(b)fluoranthene	205-99-2	8,400.	260.	ug/kg	5
03787	Benzo(k)fluoranthene	207-08-9	3,800.	51.	ug/kg	5
03788	Benzo(a)pyrene	50-32-8	6,600.	260.	ug/kg	1
03789	Indeno(1,2,3-cd)pyrene	193-39-5	4,200.	51.	ug/kg	5

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Lancaster Laboratories Sample No. SW 3940885

Collected: 11/13/2002 10:30 by TM

Account Number: 04285

Submitted: 11/15/2002 09:15

Ciba Specialty Chemicals Corp

Reported: 12/02/2002 at 18:23

Bldg 743 -Route 37 West

Discard: 02/01/2003

P.O. Box 71

SD-05L-6-12 Composite Sediment Sample

Toms River NJ 08754-0071

Pawtuxet River Sediment, RI

5L612

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
03790	Dibenz(a,h)anthracene	53-70-3	1,300.	51.	ug/kg	1
03791	Benzo(g,h,i)perylene	191-24-2	3,600.	51.	ug/kg	1
05441	EPA SW846/8260 (soil)					
05466	Toluene	108-88-3	2.	2.	ug/kg	1
05472	Chlorobenzene	108-90-7	15.	2.	ug/kg	1
05442	EPA SW846/8260 (soil) cont					
05475	m+p-Xylene	1330-20-7	N.D.	2.	ug/kg	1
05476	o-Xylene	95-47-6	2.	2.	ug/kg	1
07103	Grain Size to 1 um					
07135	75 mm	n.a.	100.	0.50	% Passing	1
07136	37.5 mm	n.a.	100.	0.50	% Passing	1
07137	19 mm	n.a.	99.8	0.50	% Passing	1
07138	4.75 mm	n.a.	97.4	0.50	% Passing	1
07139	3.35 mm	n.a.	96.2	0.50	% Passing	1
07140	2.36 mm	n.a.	95.0	0.50	% Passing	1
07141	1.18 mm	n.a.	93.8	0.50	% Passing	1
07142	0.6 mm	n.a.	90.6	0.50	% Passing	1
07143	0.3 mm	n.a.	58.6	0.50	% Passing	1
07144	0.15 mm	n.a.	13.5	0.50	% Passing	1
07145	0.075 mm	n.a.	6.1	0.50	% Passing	1
07146	0.064 mm	n.a.	6.5	0.50	% Passing	1
07147	0.05 mm	n.a.	6.5	0.50	% Passing	1
07148	0.02 mm	n.a.	3.5	0.50	% Passing	1
07149	0.005 mm	n.a.	N.D.	0.50	% Passing	1
07150	0.002 mm	n.a.	N.D.	0.50	% Passing	1
07151	0.001 mm	n.a.	N.D.	0.50	% Passing	1



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Lancaster Laboratories Sample No. SW 3940885

Collected: 11/13/2002 10:30 by TM

Account Number: 04285

Submitted: 11/15/2002 09:15

Ciba Specialty Chemicals Corp
Bldg 743 -Route 37 West
P.O. Box 71
Toms River NJ 08754-0071

Reported: 12/02/2002 at 18:23

Discard: 02/01/2003

SD-05L-6-12 Composite Sediment Sample

Pawtuxet River Sediment, RI

5L612

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
						Passing

The hydrometer values (particle sizes 0.064 mm to 0.001 mm) are interpolated from the plotted data.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Date and Time	Analysis	Analyst	Dilution Factor
01625	Thallium	SW-846 6010B	2	11/26/2002 06:38		Donna R Sackett	1
01649	Cadmium	SW-846 6010B	2	11/26/2002 06:38		Donna R Sackett	1
01653	Copper	SW-846 6010B	2	11/26/2002 06:38		Donna R Sackett	1
01655	Lead	SW-846 6010B	2	11/26/2002 06:38		Donna R Sackett	1
01672	Zinc	SW-846 6010B	2	11/26/2002 06:38		Donna R Sackett	1
00111	Moisture	EPA 160.3 modified	1	11/18/2002 09:11		Helen L Schaeffer	1
02079	TOC Solids/Sludges Combustion	SM18 5310B, modified	1	11/25/2002 15:11		Timothy M Petree	1
05895	Total Cyanide (solid)	SW-846 9012A	1	11/22/2002 13:27		Nicole M Kepley	1
01216	PCBs in Solids	SW-846 8082	1	11/21/2002 08:02		Tiffany A Leyda	5
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	11/20/2002 14:44		Mark A Ratcliff	1
04689	TCL SW846 Semivolatiles/Soil	SW-846 8270C	1	11/20/2002 14:44		Mark A Ratcliff	1
04689	TCL SW846 Semivolatiles/Soil	SW-846 8270C	1	11/22/2002 20:02		Mark A Ratcliff	5
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	11/19/2002 00:19		Ryan V Nolt	1
05442	EPA SW846/8260 (soil) cont	SW-846 8260B	1	11/19/2002 00:19		Ryan V Nolt	1
07103	Grain Size to 1 um	ASTM D-422	1	11/19/2002 14:30		Catherine L Cammauf	1
00374	GC/MS VOA Soil Prep	SW-846 5030A	1	11/18/2002 20:41		Ryan V Nolt	n.a.
00381	BNA Soil Extraction	SW-846 3550B	1	11/19/2002 19:10		Amy M Strocko	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/18/2002 19:00		Luis E Villamil	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	11/25/2002 11:00		Jayme E Curet	1
05896	Cyanide Solid Distillation	SW-846 9012A, mod.	1	11/19/2002 09:55		Cheryl L Robinson	1



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Lancaster Laboratories Sample No. SW 3940886

Collected: 11/13/2002 10:00 by TM

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Submitted: 11/15/2002 09:15

Ciba Specialty Chemicals Corp

Reported: 12/02/2002 at 18:23

Bldg 743 -Route 37 West

Discard: 02/01/2003

P.O. Box 71

SD-06R-0-6 Composite Sediment Sample

Toms River NJ 08754-0071

Pawtuxet River Sediment, RI

6R06-

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
01625	Thallium	7440-28-0	N.D.	2.0	mg/kg	1
01649	Cadmium	7440-43-9	5.0	0.19	mg/kg	1
01653	Copper	7440-50-8	124.	0.33	mg/kg	1
01655	Lead	7439-92-1	127.	2.0	mg/kg	1
01672	Zinc	7440-66-6	286.	0.75	mg/kg	1
00111	Moisture	n.a.	52.8	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
02079	TOC Solids/Sludges Combustion	n.a.	35,000.	4,300.	mg/kg	1
05895	Total Cyanide (solid)	57-12-5	N.D.	0.38	mg/kg	1
01216	PCBs in Solids					
01496	PCB-1221	11104-28-2	N.D.	35.	ug/kg	5
01497	PCB-1232	11141-16-5	N.D.	35.	ug/kg	5
01498	PCB-1242	53469-21-9	N.D.	35.	ug/kg	5
01499	PCB-1248	12672-29-6	630.	35.	ug/kg	5
01500	PCB-1254	11097-69-1	750.	35.	ug/kg	5
01501	PCB-1260	11096-82-5	230.	35.	ug/kg	5
Accurate surrogate recoveries could not be determined due to the dilution required for analysis of the sample.						
04688	TCL SW846 Semivolatiles Soil					
03755	1,2-Dichlorobenzene	95-50-1	N.D.	70.	ug/kg	1
04693	4-Chloroaniline	106-47-8	1,100.	70.	ug/kg	1
04694	2-Methylnaphthalene	91-57-6	N.D.	70.	ug/kg	1
04689	TCL SW846 Semivolatiles/Soil					
01195	Pyrene	129-00-0	3,700.	70.	ug/kg	1
03776	Anthracene	120-12-7	380.	70.	ug/kg	1
03778	Fluoranthene	206-44-0	2,900.	70.	ug/kg	1
03781	Benzo(a)anthracene	56-55-3	1,400.	70.	ug/kg	1
03782	Chrysene	218-01-9	2,200.	70.	ug/kg	1
03786	Benzo(b)fluoranthene	205-99-2	2,800.	70.	ug/kg	1
03787	Benzo(k)fluoranthene	207-08-9	1,200.	70.	ug/kg	1
03788	Benzo(a)pyrene	50-32-8	1,800.	70.	ug/kg	1
03789	Indeno(1,2,3-cd)pyrene	193-39-5	1,400.	70.	ug/kg	1

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Lancaster Laboratories Sample No. SW 3940886

Collected: 11/13/2002 10:00 by TM

Account Number: 04285

Submitted: 11/15/2002 09:15

Ciba Specialty Chemicals Corp

Reported: 12/02/2002 at 18:23

Bldg 743 -Route 37 West

Discard: 02/01/2003

P.O. Box 71

SD-06R-0-6 Composite Sediment Sample

Toms River NJ 08754-0071

Pawtuxet River Sediment, RI

6R06-

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
03790	Dibenz(a,h)anthracene	53-70-3	420.	70.	ug/kg	1
03791	Benzo(g,h,i)perylene	191-24-2	1,400.	70.	ug/kg	1
05441	EPA SW846/8260 (soil)					
05466	Toluene	108-88-3	N.D.	2.	ug/kg	1
05472	Chlorobenzene	108-90-7	5.	2.	ug/kg	1
05442	EPA SW846/8260 (soil) cont					
05475	m+p-Xylene	1330-20-7	N.D.	2.	ug/kg	1
05476	o-Xylene	95-47-6	N.D.	2.	ug/kg	1
The GC/MS volatile internal standard peak areas were outside the QC limits for both the initial analysis and the re-analysis. The values reported here are from the initial analysis of the sample.						
07103	Grain Size to 1 um					
07135	75 mm	n.a.	100.	0.50	% Passing	1
07136	37.5 mm	n.a.	100.	0.50	% Passing	1
07137	19 mm	n.a.	100.	0.50	% Passing	1
07138	4.75 mm	n.a.	98.6	0.50	% Passing	1
07139	3.35 mm	n.a.	98.2	0.50	% Passing	1
07140	2.36 mm	n.a.	97.4	0.50	% Passing	1
07141	1.18 mm	n.a.	95.8	0.50	% Passing	1
07142	0.6 mm	n.a.	94.0	0.50	% Passing	1
07143	0.3 mm	n.a.	91.4	0.50	% Passing	1
07144	0.15 mm	n.a.	68.7	0.50	% Passing	1
07145	0.075 mm	n.a.	34.1	0.50	% Passing	1
07146	0.064 mm	n.a.	28.5	0.50	% Passing	1
07147	0.05 mm	n.a.	20.0	0.50	% Passing	1
07148	0.02 mm	n.a.	7.5	0.50	% Passing	1
07149	0.005 mm	n.a.	4.0	0.50	% Passing	1

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Lancaster Laboratories Sample No. SW 3940886

Collected: 11/13/2002 10:00 by TM

Account Number: 04285

Submitted: 11/15/2002 09:15

Ciba Specialty Chemicals Corp
Bldg 743 -Route 37 West
P.O. Box 71
Toms River NJ 08754-0071

Reported: 12/02/2002 at 18:23

Discard: 02/01/2003

SD-06R-0-6 Composite Sediment Sample

Pawtuxet River Sediment, RI

6R06-

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
07150	0.002 mm	n.a.	2.0	0.50	Passing	1
07151	0.001 mm	n.a.	1.0	0.50	Passing	1

The hydrometer values (particle sizes 0.064 mm to 0.001 mm) are interpolated from the plotted data.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Date and Time	Analysis	Analyst	Dilution Factor
01625	Thallium	SW-846 6010B	2	11/26/2002 06:44		Donna R Sackett	1
01649	Cadmium	SW-846 6010B	2	11/26/2002 06:44		Donna R Sackett	1
01653	Copper	SW-846 6010B	2	11/26/2002 06:44		Donna R Sackett	1
01655	Lead	SW-846 6010B	2	11/26/2002 06:44		Donna R Sackett	1
01672	Zinc	SW-846 6010B	2	11/26/2002 06:44		Donna R Sackett	1
00111	Moisture	EPA 160.3 modified	1	11/18/2002 11:18		Donna R Sackett	1
02079	TOC Solids/Sludges Combustion	SM18 5310B, modified	1	11/25/2002 15:18		Helen L Schaeffer	1
05895	Total Cyanide (solid)	SW-846 9012A	1	11/22/2002 13:28		Timothy M Petree	1
01216	PCBs in Solids	SW-846 8082	1	11/21/2002 08:25		Nicole M Kepley	1
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	11/20/2002 15:34		Tiffany A Leyda	5
04689	TCL SW846 Semivolatiles/Soil	SW-846 8270C	1	11/20/2002 15:34		Mark A Ratcliff	1
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	11/19/2002 00:52		Ryan V Nolt	1
05442	EPA SW846/8260 (soil) cont	SW-846 8260B	1	11/19/2002 00:52		Ryan V Nolt	1
07103	Grain Size to 1 um	ASTM D-422	1	11/19/2002 14:30		Catherine L Cammauf	1
00374	GC/MS VOA Soil Prep	SW-846 5030A	1	11/18/2002 20:43		Ryan V Nolt	n.a.
00381	BNA Soil Extraction	SW-846 3550B	1	11/19/2002 19:10		Amy M Strocko	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/18/2002 19:00		Luis E Villamil	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	11/25/2002 11:00		Jayme E Curet	1
05896	Cyanide Solid Distillation	SW-846 9012A, mod.	1	11/19/2002 09:55		Cheryl L Robinson	1



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Lancaster Laboratories Sample No. SW 3940887

Collected: 11/13/2002 09:30 by TM

Account Number: 04285

Submitted: 11/15/2002 09:15

Ciba Specialty Chemicals Corp
Bldg 743 -Route 37 West
P.O. Box 71
Toms River NJ 08754-0071

Reported: 12/02/2002 at 18:23

Discard: 02/01/2003

SD-07L-0-2 Composite Sediment Sample

Pawtuxet River Sediment, RI

7L06-

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
01625	Thallium	7440-28-0	N.D.	1.8	mg/kg	1
01649	Cadmium	7440-43-9	4.0	0.17	mg/kg	1
01653	Copper	7440-50-8	68.1	0.30	mg/kg	1
01655	Lead	7439-92-1	71.5	1.8	mg/kg	1
01672	Zinc	7440-66-6	184.	0.68	mg/kg	1
00111	Moisture	n.a.	48.8	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
02079	TOC Solids/Sludges Combustion	n.a.	24,900.	3,000.	mg/kg	1
05895	Total Cyanide (solid)	57-12-5	N.D.	0.34	mg/kg	1
01216	PCBs in Solids					
01496	PCB-1221	11104-28-2	N.D.	6.4	ug/kg	1
01497	PCB-1232	11141-16-5	N.D.	6.4	ug/kg	1
01498	PCB-1242	53469-21-9	N.D.	6.4	ug/kg	1
01499	PCB-1248	12672-29-6	N.D.	6.4	ug/kg	1
01500	PCB-1254	11097-69-1	150.	6.4	ug/kg	1
01501	PCB-1260	11096-82-5	74.	6.4	ug/kg	1
04688	TCL SW846 Semivolatiles Soil					
03755	1,2-Dichlorobenzene	95-50-1	N.D.	64.	ug/kg	1
04693	4-Chloroaniline	106-47-8	220.	64.	ug/kg	1
04694	2-Methylnaphthalene	91-57-6	N.D.	64.	ug/kg	1
04689	TCL SW846 Semivolatiles/Soil					
01195	Pyrene	129-00-0	2,000.	64.	ug/kg	1
03776	Anthracene	120-12-7	200.	64.	ug/kg	1
03778	Fluoranthene	206-44-0	1,700.	64.	ug/kg	1
03781	Benzo(a)anthracene	56-55-3	790.	64.	ug/kg	1
03782	Chrysene	218-01-9	1,300.	64.	ug/kg	1
03786	Benzo(b)fluoranthene	205-99-2	1,500.	64.	ug/kg	1
03787	Benzo(k)fluoranthene	207-08-9	680.	64.	ug/kg	1
03788	Benzo(a)pyrene	50-32-8	950.	64.	ug/kg	1
03789	Indeno(1,2,3-cd)pyrene	193-39-5	780.	64.	ug/kg	1
03790	Dibenz(a,h)anthracene	53-70-3	220.	64.	ug/kg	1
03791	Benzo(g,h,i)perylene	191-24-2	720.	64.	ug/kg	1

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Lancaster Laboratories Sample No. SW 3940887

Collected: 11/13/2002 09:30 by TM

Account Number: 04285

Submitted: 11/15/2002 09:15

Ciba Specialty Chemicals Corp
Bldg 743 -Route 37 West
P.O. Box 71
Toms River NJ 08754-0071

Reported: 12/02/2002 at 18:23

Discard: 02/01/2003

SD-07L-0-2 Composite Sediment Sample

Pawtuxet River Sediment, RI

7L06-

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
05441	EPA SW846/8260 (soil)					
05466	Toluene	108-88-3	N.D.	2.	ug/kg	1
05472	Chlorobenzene	108-90-7	3.	2.	ug/kg	1
05442	EPA SW846/8260 (soil) cont					
05475	m+p-Xylene	1330-20-7	N.D.	2.	ug/kg	1
05476	o-Xylene	95-47-6	N.D.	2.	ug/kg	1
07103	Grain Size to 1 um					
07135	75 mm	n.a.	100.	0.50	%	1
07136	37.5 mm	n.a.	100.	0.50	%	1
07137	19 mm	n.a.	99.4	0.50	%	1
07138	4.75 mm	n.a.	97.0	0.50	%	1
07139	3.35 mm	n.a.	96.6	0.50	%	1
07140	2.36 mm	n.a.	95.6	0.50	%	1
07141	1.18 mm	n.a.	94.9	0.50	%	1
07142	0.6 mm	n.a.	93.6	0.50	%	1
07143	0.3 mm	n.a.	78.8	0.50	%	1
07144	0.15 mm	n.a.	48.8	0.50	%	1
07145	0.075 mm	n.a.	23.0	0.50	%	1
07146	0.064 mm	n.a.	19.0	0.50	%	1
07147	0.05 mm	n.a.	13.5	0.50	%	1
07148	0.02 mm	n.a.	6.0	0.50	%	1
07149	0.005 mm	n.a.	2.0	0.50	%	1
07150	0.002 mm	n.a.	N.D.	0.50	%	1
07151	0.001 mm	n.a.	N.D.	0.50	%	1

The hydrometer values (particle sizes 0.064 mm to 0.001 mm) are



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Lancaster Laboratories Sample No. SW 3940887

Collected: 11/13/2002 09:30 by TM

Account Number: 04285

Submitted: 11/15/2002 09:15

Ciba Specialty Chemicals Corp

Reported: 12/02/2002 at 18:23

Bldg 743 -Route 37 West

Discard: 02/01/2003

P.O. Box 71

SD-07L-0-2 Composite Sediment Sample

Toms River NJ 08754-0071

Pawtuxet River Sediment, RI

7L06-

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
	interpolated from the plotted data.					

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Date and Time	Analysis Analyst	Dilution Factor
01625	Thallium	SW-846 6010B	2	11/26/2002 06:49	Donna R Sackett	1
01649	Cadmium	SW-846 6010B	2	11/26/2002 06:49	Donna R Sackett	1
01653	Copper ..	SW-846 6010B	2	11/26/2002 06:49	Donna R Sackett	1
01655	Lead	SW-846 6010B	2	11/26/2002 06:49	Donna R Sackett	1
01672	Zinc	SW-846 6010B	2	11/26/2002 06:49	Donna R Sackett	1
00111	Moisture	EPA 160.3 modified	1	11/18/2002 11:18	Donna R Sackett	1
02079	TOC Solids/Sludges Combustion	SM18 5310B, modified	1	11/25/2002 15:25	Helen L Schaeffer Timothy M Petree	1
05895	Total Cyanide (solid)	SW-846 9012A	1	11/22/2002 13:29	Nicole M Kepley	1
01216	PCBs in Solids	SW-846 8082	1	11/21/2002 08:48	Tiffany A Leyda	1
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	11/20/2002 16:25	Mark A Ratcliff	1
04689	TCL SW846 Semivolatiles/Soil	SW-846 8270C	1	11/20/2002 16:25	Mark A Ratcliff	1
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	11/19/2002 01:25	Ryan V Nolt	1
05442	EPA SW846/8260 (soil) cont	SW-846 8260B	1	11/19/2002 01:25	Ryan V Nolt	1
07103	Grain Size to 1 um	ASTM D-422	1	11/19/2002 14:30	Catherine L Cammauf	1
00374	GC/MS VOA Soil Prep	SW-846 5030A	1	11/18/2002 20:44	Ryan V Nolt	n.a.
00381	BNA Soil Extraction	SW-846 3550B	1	11/19/2002 19:10	Amy M Strocko	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/18/2002 19:00	Luis E Villamil	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	11/25/2002 11:00	Jayme E Curet	1
05896	Cyanide Solid Distillation	SW-846 9012A, mod.	1	11/19/2002 09:55	Cheryl L Robinson	1



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Lancaster Laboratories Sample No. SW 3940888

Collected: 11/13/2002 09:00 by TM

Account Number: 04285

Submitted: 11/15/2002 09:15

Ciba Specialty Chemicals Corp
Bldg 743 -Route 37 West
P.O. Box 71
Toms River NJ 08754-0071

Reported: 12/02/2002 at 18:23

Discard: 02/01/2003

SD-08M-0-2 Composite Sediment Sample

Pawtuxet River Sediment, RI

8M02-

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
01625	Thallium	7440-28-0	N.D.	1.1	mg/kg	1
01649	Cadmium	7440-43-9	N.D.	0.098	mg/kg	1
01653	Copper	7440-50-8	3.8	0.17	mg/kg	1
01655	Lead	7439-92-1	4.9	1.0	mg/kg	1
01672	Zinc	7440-66-6	26.3	0.39	mg/kg	1
00111	Moisture	n.a.	11.2	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
02079	TOC Solids/Sludges Combustion	n.a.	470.	97.	mg/kg	1
05895	Total Cyanide (solid)	57-12-5	N.D.	0.20	mg/kg	1
01216	PCBs in Solids					
01496	PCB-1221	11104-28-2	N.D.	3.7	ug/kg	1
01497	PCB-1232	11141-16-5	N.D.	3.7	ug/kg	1
01498	PCB-1242	53469-21-9	N.D.	3.7	ug/kg	1
01499	PCB-1248	12672-29-6	N.D.	3.7	ug/kg	1
01500	PCB-1254	11097-69-1	N.D.	3.7	ug/kg	1
01501	PCB-1260	11096-82-5	N.D.	3.7	ug/kg	1
04688	TCL SW846 Semivolatiles Soil					
03755	1,2-Dichlorobenzene	95-50-1	N.D.	37.	ug/kg	1
04693	4-Chloroaniline	106-47-8	N.D.	37.	ug/kg	1
04694	2-Methylnaphthalene	91-57-6	N.D.	37.	ug/kg	1
04689	TCL SW846 Semivolatiles/Soil					
01195	Pyrene	129-00-0	140.	37.	ug/kg	1
03776	Anthracene	120-12-7	N.D.	37.	ug/kg	1
03778	Fluoranthene	206-44-0	120.	37.	ug/kg	1
03781	Benzo(a)anthracene	56-55-3	51.	37.	ug/kg	1
03782	Chrysene	218-01-9	82.	37.	ug/kg	1
03786	Benzo(b)fluoranthene	205-99-2	120.	37.	ug/kg	1
03787	Benzo(k)fluoranthene	207-08-9	47.	37.	ug/kg	1
03788	Benzo(a)pyrene	50-32-8	68.	37.	ug/kg	1
03789	Indeno(1,2,3-cd)pyrene	193-39-5	53.	37.	ug/kg	1
03790	Dibenz(a,h)anthracene	53-70-3	N.D.	37.	ug/kg	1
03791	Benzo(g,h,i)perylene	191-24-2	58.	37.	ug/kg	1

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Lancaster Laboratories Sample No. SW 3940888

Collected: 11/13/2002 09:00 by TM.

Account Number: 04285

Submitted: 11/15/2002 09:15

Ciba Specialty Chemicals Corp

Reported: 12/02/2002 at 18:23

Bldg 743 -Route 37 West

Discard: 02/01/2003

P.O. Box 71

SD-08M-0-2 Composite Sediment Sample

Toms River NJ 08754-0071

Pawtuxet River Sediment, RI

8M02-

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
05441	EPA SW846/8260 (soil)					
05466	Toluene	108-88-3	N.D.	1.	ug/kg	1
05472	Chlorobenzene	108-90-7	N.D.	1.	ug/kg	1
05442	EPA SW846/8260 (soil) cont					
05475	m+p-Xylene	1330-20-7	N.D.	1.	ug/kg	1
05476	o-Xylene	95-47-6	N.D.	1.	ug/kg	1
07103	Grain Size to 1 um					
07135	75 mm	n.a.	100.	0.50	%	1
07136	37.5 mm	n.a.	100.	0.50	% Passing	1
07137	19 mm	n.a.	100.	0.50	% Passing	1
07138	4.75 mm	n.a.	99.4	0.50	% Passing	1
07139	3.35 mm	n.a.	98.0	0.50	% Passing	1
07140	2.36 mm	n.a.	94.7	0.50	% Passing	1
07141	1.18 mm	n.a.	88.4	0.50	% Passing	1
07142	0.6 mm	n.a.	58.4	0.50	% Passing	1
07143	0.3 mm	n.a.	12.2	0.50	% Passing	1
07144	0.15 mm	n.a.	3.3	0.50	% Passing	1
07145	0.075 mm	n.a.	2.7	0.50	% Passing	1
07146	0.064 mm	n.a.	3.0	0.50	% Passing	1
07147	0.05 mm	n.a.	2.0	0.50	% Passing	1
07148	0.02 mm	n.a.	1.5	0.50	% Passing	1
07149	0.005 mm	n.a.	N.D.	0.50	% Passing	1
07150	0.002 mm	n.a.	N.D.	0.50	% Passing	1
07151	0.001 mm	n.a.	N.D.	0.50	% Passing	1

The hydrometer values (particle sizes 0.064 mm to 0.001 mm) are



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Lancaster Laboratories Sample No. SW 3940888

Collected: 11/13/2002 09:00 by TM

Account Number: 04285

Submitted: 11/15/2002 09:15

Ciba Specialty Chemicals Corp

Reported: 12/02/2002 at 18:23

Bldg 743 -Route 37 West

Discard: 02/01/2003

P.O. Box 71

SD-08M-0-2 Composite Sediment Sample

Toms River NJ 08754-0071

Pawtuxet River Sediment, RI

8M02-

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
	interpolated from the plotted data.					

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilutio: Factor
01625	Thallium	SW-846 6010B	2	11/26/2002 06:55		Donna R Sackett	1
01649	Cadmium	SW-846 6010B	2	11/26/2002 06:55		Donna R Sackett	1
01653	Copper	SW-846 6010B	2	11/26/2002 06:55		Donna R Sackett	1
01655	Lead	SW-846 6010B	2	11/26/2002 06:55		Donna R Sackett	1
01672	Zinc	SW-846 6010B	2	11/26/2002 06:55		Donna R Sackett	1
00111	Moisture	EPA 160.3 modified	1	11/18/2002 11:18		Helen L Schaeffer	1
02079	TOC Solids/Sludges Combustion	SM18 5310B, modified	1	11/25/2002 15:51		Timothy M Petree	1
05895	Total Cyanide (solid)	SW-846 9012A	1	11/27/2002 12:25		Nicole M Kepley	1
01216	PCBs in Solids	SW-846 8082	1	11/21/2002 10:23		Tiffany A Leyda	1
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	11/20/2002 17:15		Mark A Ratcliff	1
04689	TCL SW846 Semivolatiles/Soil	SW-846 8270C	1	11/20/2002 17:15		Mark A Ratcliff	1
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	11/19/2002 01:58		Ryan V Nolt	1
05442	EPA SW846/8260 (soil) cont	SW-846 8260B	1	11/19/2002 01:58		Ryan V Nolt	1
07103	Grain Size to 1 um	ASTM D-422	1	11/19/2002 14:30		Catherine L Cammauf	1
00374	GC/MS VOA Soil Prep	SW-846 5030A	1	11/18/2002 20:45		Ryan V Nolt	n.a.
00381	BNA Soil Extraction	SW-846 3550B	1	11/19/2002 19:10		Amy M Strocko	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/18/2002 19:00		Luis E Villamil	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	11/25/2002 11:00		Jayme E Curet	1
05896	Cyanide Solid Distillation	SW-846 9012A, mod.	1	11/19/2002 09:55	Cheryl L Robinson	1



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 Lancaster, PA 17605-2425
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Page 1 of 3

Lancaster Laboratories Sample No. SW 3940889

Collected: 11/13/2002 09:00 by TM

Account Number: 04285

Submitted: 11/15/2002 09:15

Ciba Specialty Chemicals Corp

Reported: 12/02/2002 at 18:24

Bldg 743 -Route 37 West

Discard: 02/01/2003

P.O. Box 71

SD-08M-2-4 Composite Sediment Sample

Toms River NJ 08754-0071

Pawtuxet River Sediment, RI

8M24-

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
01625	Thallium	7440-28-0	N.D.	1.0	mg/kg	1
01649	Cadmium	7440-43-9	N.D.	0.096	mg/kg	1
01653	Copper	7440-50-8	2.0	0.17	mg/kg	1
01655	Lead	7439-92-1	3.5	0.99	mg/kg	1
01672	Zinc	7440-66-6	27.0	0.38	mg/kg	1
00111	Moisture	n.a.	5.86	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
02079	TOC Solids/Sludges Combustion	n.a.	560.	110.	mg/kg	1
05895	Total Cyanide (solid)	57-12-5	N.D.	0.18	mg/kg	1
01216	PCBs in Solids					
01496	PCB-1221	11104-28-2	N.D.	3.5	ug/kg	1
01497	PCB-1232	11141-16-5	N.D.	3.5	ug/kg	1
01498	PCB-1242	53469-21-9	N.D.	3.5	ug/kg	1
01499	PCB-1248	12672-29-6	N.D.	3.5	ug/kg	1
01500	PCB-1254	11097-69-1	N.D.	3.5	ug/kg	1
01501	PCB-1260	11096-82-5	N.D.	3.5	ug/kg	1
04688	TCL SW846 Semivolatiles Soil					
03755	1,2-Dichlorobenzene	95-50-1	N.D.	35.	ug/kg	1
04693	4-Chloroaniline	106-47-8	N.D.	35.	ug/kg	1
04694	2-Methylnaphthalene	91-57-6	N.D.	35.	ug/kg	1
04689	TCL SW846 Semivolatiles/Soil					
01195	Pyrene	129-00-0	72.	35.	ug/kg	1
03776	Anthracene	120-12-7	N.D.	35.	ug/kg	1
03778	Fluoranthene	206-44-0	67.	35.	ug/kg	1
03781	Benzo(a)anthracene	56-55-3	N.D.	35.	ug/kg	1
03782	Chrysene	218-01-9	N.D.	35.	ug/kg	1
03786	Benzo(b)fluoranthene	205-99-2	N.D.	35.	ug/kg	1
03787	Benzo(k)fluoranthene	207-08-9	N.D.	35.	ug/kg	1
03788	Benzo(a)pyrene	50-32-8	N.D.	35.	ug/kg	1
03789	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	35.	ug/kg	1
03790	Dibenz(a,h)anthracene	53-70-3	N.D.	35.	ug/kg	1
03791	Benzo(g,h,i)perylene	191-24-2	N.D.	35.	ug/kg	1



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Lancaster Laboratories Sample No. SW 3940889

Collected: 11/13/2002 09:00 by TM

Account Number: 04285

Submitted: 11/15/2002 09:15

Ciba Specialty Chemicals Corp

Reported: 12/02/2002 at 18:24

Bldg 743 -Route 37 West

Discard: 02/01/2003

P.O. Box 71

SD-08M-2-4 Composite Sediment Sample

Toms River NJ 08754-0071

Pawtuxet River Sediment, RI

8M24-

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
05441	EPA SW846/8260 (soil)					
05466	Toluene	108-88-3	N.D.	1.	ug/kg	1
05472	Chlorobenzene	108-90-7	N.D.	1.	ug/kg	1
05442	EPA SW846/8260 (soil) cont					
05475	m+p-Xylene	1330-20-7	N.D.	1.	ug/kg	1
05476	o-Xylene	95-47-6	N.D.	1.	ug/kg	1
07103	Grain Size to 1 um					
07135	75 mm	n.a.	100.	0.50	%	1
07136	37.5 mm	n.a.	100.	0.50	% Passing	1
07137	19 mm	n.a.	100.	0.50	% Passing	1
07138	4.75 mm	n.a.	92.6	0.50	% Passing	1
07139	3.35 mm	n.a.	86.4	0.50	% Passing	1
07140	2.36 mm	n.a.	79.0	0.50	% Passing	1
07141	1.18 mm	n.a.	64.6	0.50	% Passing	1
07142	0.6 mm	n.a.	27.6	0.50	% Passing	1
07143	0.3 mm	n.a.	2.8	0.50	% Passing	1
07144	0.15 mm	n.a.	1.6	0.50	% Passing	1
07145	0.075 mm	n.a.	1.4	0.50	% Passing	1
07146	0.064 mm	n.a.	2.0	0.50	% Passing	1
07147	0.05 mm	n.a.	1.5	0.50	% Passing	1
07148	0.02 mm	n.a.	1.0	0.50	% Passing	1
07149	0.005 mm	n.a.	N.D.	0.50	% Passing	1
07150	0.002 mm	n.a.	N.D.	0.50	% Passing	1
07151	0.001 mm	n.a.	N.D.	0.50	% Passing	1

The hydrometer values (particle sizes 0.064 mm to 0.001 mm) are



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Lancaster Laboratories Sample No. SW 3940889

Collected: 11/13/2002 09:00 by TM

Account Number: 04285

Submitted: 11/15/2002 09:15

Ciba Specialty Chemicals Corp
Bldg 743 -Route 37 West
P.O. Box 71
Toms River NJ 08754-0071

Reported: 12/02/2002 at 18:24

Discard: 02/01/2003

SD-08M-2-4 Composite Sediment Sample

Pawtuxet River Sediment, RI

8M24-

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
	interpolated from the plotted data.					

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Date and Time	Analysis Analyst	Dilution Factor
01625	Thallium	SW-846 6010B	2	11/26/2002 07:00	Donna R Sackett	1
01649	Cadmium	SW-846 6010B	2	11/26/2002 07:00	Donna R Sackett	1
01653	Copper	SW-846 6010B	2	11/26/2002 07:00	Donna R Sackett	1
01655	Lead	SW-846 6010B	2	11/26/2002 07:00	Donna R Sackett	1
01672	Zinc	SW-846 6010B	2	11/26/2002 07:00	Donna R Sackett	1
00111	Moisture	EPA 160.3 modified	1	11/18/2002 11:18	Helen L Schaeffer	1
02079	TOC Solids/Sludges Combustion	SM18 5310B, modified	1	11/25/2002 15:59	Timothy M Petree	1
05895	Total Cyanide (solid)	SW-846 9012A	1	11/22/2002 13:30	Nicole M Kepley	1
01216	PCBs in Solids	SW-846 8082	1	11/21/2002 10:46	Tiffany A Leyda	1
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	11/20/2002 18:05	Mark A Ratcliff	1
04689	TCL SW846 Semivolatiles/Soil	SW-846 8270C	1	11/20/2002 18:05	Mark A Ratcliff	1
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	11/19/2002 02:30	Ryan V Nolt	1
05442	EPA SW846/8260 (soil) cont	SW-846 8260B	1	11/19/2002 02:30	Ryan V Nolt	1
07103	Grain Size to 1 um	ASTM D-422	1	11/19/2002 14:30	Catherine L Cammauf	1
00374	GC/MS VOA Soil Prep	SW-846 5030A	1	11/18/2002 20:46	Ryan V Nolt	n.a.
00381	BNA Soil Extraction	SW-846 3550B	1	11/19/2002 19:10	Amy M Strocko	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/18/2002 19:00	Luis E Villamil	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	11/25/2002 11:00	Jayme E Curet	1
05896	Cyanide Solid Distillation	SW-846 9012A, mod.	1	11/19/2002 09:55	Cheryl L Robinson	1



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Lancaster Laboratories Sample No. SW 3940890

Collected: 11/13/2002 09:00 by TM

Account Number: 04285

Submitted: 11/15/2002 09:15

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Bldg 743 -Route 37 West
P.O. Box 71
Toms River NJ 08754-0071

Reported: 12/02/2002 at 18:24

Discard: 02/01/2003

SD-08M-4-6 Composite Sediment Sample

Pawtuxet River Sediment, RI

8M46-

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
01625	Thallium	7440-28-0	N.D.	1.0	mg/kg	1
01649	Cadmium	7440-43-9	N.D.	0.095	mg/kg	1
01653	Copper	7440-50-8	4.4	0.17	mg/kg	1
01655	Lead	7439-92-1	4.8	0.98	mg/kg	1
01672	Zinc	7440-66-6	27.3	0.38	mg/kg	1
00111	Moisture	n.a.	6.25	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
02079	TOC Solids/Sludges Combustion	n.a.	320.	110.	mg/kg	1
05895	Total Cyanide (solid)	57-12-5	N.D.	0.19	mg/kg	1
01216	PCBs in Solids					
01496	PCB-1221	11104-28-2	N.D.	3.5	ug/kg	1
01497	PCB-1232	11141-16-5	N.D.	3.5	ug/kg	1
01498	PCB-1242	53469-21-9	N.D.	3.5	ug/kg	1
01499	PCB-1248	12672-29-6	N.D.	3.5	ug/kg	1
01500	PCB-1254	11097-69-1	N.D.	3.5	ug/kg	1
01501	PCB-1260	11096-82-5	N.D.	3.5	ug/kg	1
04688	TCL SW846 Semivolatiles Soil					
03755	1,2-Dichlorobenzene	95-50-1	N.D.	35.	ug/kg	1
04693	4-Chloroaniline	106-47-8	N.D.	35.	ug/kg	1
04694	2-Methylnaphthalene	91-57-6	N.D.	35.	ug/kg	1
04689	TCL SW846 Semivolatiles/Soil					
01195	Pyrene	129-00-0	N.D.	35.	ug/kg	1
03776	Anthracene	120-12-7	N.D.	35.	ug/kg	1
03778	Fluoranthene	206-44-0	N.D.	35.	ug/kg	1
03781	Benzo(a)anthracene	56-55-3	N.D.	35.	ug/kg	1
03782	Chrysene	218-01-9	N.D.	35.	ug/kg	1
03786	Benzo(b)fluoranthene	205-99-2	N.D.	35.	ug/kg	1
03787	Benzo(k)fluoranthene	207-08-9	N.D.	35.	ug/kg	1
03788	Benzo(a)pyrene	50-32-8	N.D.	35.	ug/kg	1
03789	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	35.	ug/kg	1
03790	Dibenz(a,h)anthracene	53-70-3	N.D.	35.	ug/kg	1
03791	Benzo(g,h,i)perylene	191-24-2	N.D.	35.	ug/kg	1



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Lancaster Laboratories Sample No. SW 3940890

Collected: 11/13/2002 09:00 by TM

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Submitted: 11/15/2002 09:15

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Reported: 12/02/2002 at 18:24

Discard: 02/01/2003

SD-08M-4-6 Composite Sediment Sample

Pawtuxet River Sediment, RI

8M46-

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
05441	EPA SW846/8260 (soil)					
05466	Toluene	108-88-3	N.D.	1.	ug/kg	1
05472	Chlorobenzene	108-90-7	N.D.	1.	ug/kg	1
05442	EPA SW846/8260 (soil) cont					
05475	m+p-Xylene	1330-20-7	N.D.	1.	ug/kg	1
05476	o-Xylene	95-47-6	N.D.	1.	ug/kg	1
07103	Grain Size to 1 um					
07135	75 mm	n.a.	100.	0.50	%	1
07136	37.5 mm	n.a.	100.	0.50	% Passing	1
07137	19 mm	n.a.	99.1	0.50	% Passing	1
07138	4.75 mm	n.a.	76.4	0.50	% Passing	1
07139	3.35 mm	n.a.	67.3	0.50	% Passing	1
07140	2.36 mm	n.a.	57.7	0.50	% Passing	1
07141	1.18 mm	n.a.	47.6	0.50	% Passing	1
07142	0.6 mm	n.a.	24.9	0.50	% Passing	1
07143	0.3 mm	n.a.	3.4	0.50	% Passing	1
07144	0.15 mm	n.a.	1.1	0.50	% Passing	1
07145	0.075 mm	n.a.	0.80	0.50	% Passing	1
07146	0.064 mm	n.a.	1.0	0.50	% Passing	1
07147	0.05 mm	n.a.	N.D.	0.50	% Passing	1
07148	0.02 mm	n.a.	N.D.	0.50	% Passing	1
07149	0.005 mm	n.a.	N.D.	0.50	% Passing	1
07150	0.002 mm	n.a.	N.D.	0.50	% Passing	1
07151	0.001 mm	n.a.	N.D.	0.50	% Passing	1

The hydrometer values (particle sizes 0.064 mm to 0.001 mm) are



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Lancaster Laboratories Sample No. SW 3940890

Collected: 11/13/2002 09:00 by TM

Account Number: 04285

Submitted: 11/15/2002 09:15

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Bldg 743 -Route 37 West
P.O. Box 71
Toms River NJ 08754-0071

Reported: 12/02/2002 at 18:24

Discard: 02/01/2003

SD-08M-4-6 Composite Sediment Sample

Pawtuxet River Sediment, RI

8M46-

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
	interpolated from the plotted data.					

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis		Dilution Factor
				Date and Time	Analyst	
01625	Thallium	SW-846 6010B	2	11/26/2002 07:05	Donna R Sackett	1
01649	Cadmium	SW-846 6010B	2	11/26/2002 07:05	Donna R Sackett	1
01653	Copper	SW-846 6010B	2	11/26/2002 07:05	Donna R Sackett	1
01655	Lead	SW-846 6010B	2	11/26/2002 07:05	Donna R Sackett	1
01672	Zinc	SW-846 6010B	2	11/26/2002 07:05	Donna R Sackett	1
00111	Moisture	EPA 160.3 modified	1	11/18/2002 11:18	Donna R Sackett	1
02079	TOC Solids/Sludges Combustion	SM18 5310B, modified	1	11/25/2002 16:06	Helen L Schaeffer Timothy M Petree	1
05895	Total Cyanide (solid)	SW-846 9012A	1	11/22/2002 13:31	Nicole M Kepley	1
01216	PCBs in Solids	SW-846 8082	1	11/21/2002 11:09	Tiffany A Leyda	1
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	11/20/2002 18:55	Mark A Ratcliff	1
04689	TCL SW846 Semivolatiles/Soil	SW-846 8270C	1	11/20/2002 18:55	Mark A Ratcliff	1
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	11/19/2002 03:03	Ryan V Nolt	1
05442	EPA SW846/8260 (soil) cont	SW-846 8260B	1	11/19/2002 03:03	Ryan V Nolt	1
07103	Grain Size to 1 um	ASTM D-422	1	11/19/2002 14:30	Catherine L Cammauf	1
00374	GC/MS VOA Soil Prep	SW-846 5030A	1	11/18/2002 20:47	Ryan V Nolt	n.a.
00381	BNA Soil Extraction	SW-846 3550B	1	11/19/2002 19:10	Amy M Strocko	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/18/2002 19:00	Luis E Villamil	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	11/25/2002 11:00	Jayme E Curet	1
05896	Cyanide Solid Distillation	SW-846 9012A, mod.	1	11/19/2002 09:55	Cheryl L Robinson	1



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Lancaster Laboratories Sample No. SW 3940891

Collected: 11/13/2002 09:00 by TM

Account Number: 04285

Submitted: 11/15/2002 09:15

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P.O. Box 71
Toms River NJ 08754-0071

Reported: 12/02/2002 at 18:24

Discard: 02/01/2003

SD-08M-6-12 Composite Sediment Sample

Pawtuxet River Sediment, RI

8M612

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
01625	Thallium	7440-28-0	N.D.	1.0	mg/kg	1
01649	Cadmium	7440-43-9	N.D.	0.094	mg/kg	1
01653	Copper	7440-50-8	2.2	0.16	mg/kg	1
01655	Lead	7439-92-1	3.7	0.97	mg/kg	1
01672	Zinc	7440-66-6	22.5	0.37	mg/kg	1
00111	Moisture	n.a.	6.56	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
02079	TOC Solids/Sludges Combustion	n.a.	890.	150.	mg/kg	1
05895	Total Cyanide (solid)	57-12-5	N.D.	0.19	mg/kg	1
01216	PCBs in Solids					
01496	PCB-1221	11104-28-2	N.D.	3.5	ug/kg	1
01497	PCB-1232	11141-16-5	N.D.	3.5	ug/kg	1
01498	PCB-1242	53469-21-9	N.D.	3.5	ug/kg	1
01499	PCB-1248	12672-29-6	N.D.	3.5	ug/kg	1
01500	PCB-1254	11097-69-1	N.D.	3.5	ug/kg	1
01501	PCB-1260	11096-82-5	N.D.	3.5	ug/kg	1
04688	TCL SW846 Semivolatiles Soil					
03755	1,2-Dichlorobenzene	95-50-1	N.D.	35.	ug/kg	1
04693	4-Chloroaniline	106-47-8	N.D.	35.	ug/kg	1
04694	2-Methylnaphthalene	91-57-6	N.D.	35.	ug/kg	1
04689	TCL SW846 Semivolatiles/Soil					
01195	Pyrene	129-00-0	N.D.	35.	ug/kg	1
03776	Anthracene	120-12-7	N.D.	35.	ug/kg	1
03778	Fluoranthene	206-44-0	N.D.	35.	ug/kg	1
03781	Benzo(a)anthracene	56-55-3	N.D.	35.	ug/kg	1
03782	Chrysene	218-01-9	N.D.	35.	ug/kg	1
03786	Benzo(b)fluoranthene	205-99-2	N.D.	35.	ug/kg	1
03787	Benzo(k)fluoranthene	207-08-9	N.D.	35.	ug/kg	1
03788	Benzo(a)pyrene	50-32-8	N.D.	35.	ug/kg	1
03789	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	35.	ug/kg	1
03790	Dibenz(a,h)anthracene	53-70-3	N.D.	35.	ug/kg	1
03791	Benzo(g,h,i)perylene	191-24-2	N.D.	35.	ug/kg	1



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Lancaster Laboratories Sample No. SW 3940891

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Bldg 743 -Route 37 West
P.O. Box 71
Toms River NJ 08754-0071

Reported: 12/02/2002 at 18:24

Discard: 02/01/2003

SD-08M-6-12 Composite Sediment Sample

Pawtuxet River Sediment, RI

8M612

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
05441	EPA SW846/8260 (soil)					
05466	Toluene	108-88-3	N.D.	1.	ug/kg	1
05472	Chlorobenzene	108-90-7	N.D.	1.	ug/kg	1
05442	EPA SW846/8260 (soil) cont					
05475	m+p-Xylene	1330-20-7	N.D.	1.	ug/kg	1
05476	o-Xylene	95-47-6	N.D.	1.	ug/kg	1
07103	Grain Size to 1 um					
07135	75 mm	n.a.	100.	0.50	% Passing	1
07136	37.5 mm	n.a.	100.	0.50	% Passing	1
07137	19 mm	n.a.	100.	0.50	% Passing	1
07138	4.75 mm	n.a.	72.6	0.50	% Passing	1
07139	3.35 mm	n.a.	59.3	0.50	% Passing	1
07140	2.36 mm	n.a.	46.9	0.50	% Passing	1
07141	1.18 mm	n.a.	35.3	0.50	% Passing	1
07142	0.6 mm	n.a.	17.4	0.50	% Passing	1
07143	0.3 mm	n.a.	2.6	0.50	% Passing	1
07144	0.15 mm	n.a.	0.80	0.50	% Passing	1
07145	0.075 mm	n.a.	N.D.	0.50	% Passing	1
07146	0.064 mm	n.a.	N.D.	0.50	% Passing	1
07147	0.05 mm	n.a.	N.D.	0.50	% Passing	1
07148	0.02 mm	n.a.	N.D.	0.50	% Passing	1
07149	0.005 mm	n.a.	N.D.	0.50	% Passing	1
07150	0.002 mm	n.a.	N.D.	0.50	% Passing	1
07151	0.001 mm	n.a.	N.D.	0.50	% Passing	1

The hydrometer values (particle sizes 0.064 mm to 0.001 mm) are



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Lancaster Laboratories Sample No. SW 3940891

Collected: 11/13/2002 09:00 by TM

Account Number: 04285

Submitted: 11/15/2002 09:15

Ciba Specialty Chemicals Corp

Reported: 12/02/2002 at 18:24

Bldg 743 -Route 37 West

Discard: 02/01/2003

P.O. Box 71

SD-08M-6-12 Composite Sediment Sample

Toms River NJ 08754-0071

Pawtuxet River Sediment, RI

8M612

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
interpolated from the plotted data.						

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Date and Time	Analysis Analyst	Dilution Factor
01625	Thallium	SW-846 6010B	2	11/26/2002 07:11	Donna R Sackett	1
01649	Cadmium	SW-846 6010B	2	11/26/2002 07:11	Donna R Sackett	1
01653	Copper	SW-846 6010B	2	11/26/2002 07:11	Donna R Sackett	1
01655	Lead	SW-846 6010B	2	11/26/2002 07:11	Donna R Sackett	1
01672	Zinc	SW-846 6010B	2	11/26/2002 07:11	Donna R Sackett	1
00111	Moisture	EPA 160.3 modified	1	11/18/2002 11:18	Donna R Sackett	1
02079	TOC Solids/Sludges Combustion	SM18 5310B, modified	1	11/25/2002 16:13	Helen L Schaeffer Timothy M Petree	1
05895	Total Cyanide (solid)	SW-846 9012A	1	11/22/2002 13:57	Nicole M Kepley	1
01216	PCBs in Solids	SW-846 8082	1	11/21/2002 11:32	Tiffany A Leyda	1
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	11/20/2002 19:45	Mark A Ratcliff	1
04689	TCL SW846 Semivolatiles/Soil	SW-846 8270C	1	11/20/2002 19:45	Mark A Ratcliff	1
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	11/19/2002 03:36	Ryan V Nolt	1
05442	EPA SW846/8260 (soil) cont	SW-846 8260B	1	11/19/2002 03:36	Ryan V Nolt	1
07103	Grain Size to 1 um	ASTM D-422	1	11/19/2002 14:30	Catherine L Cammauf	1
00374	GC/MS VOA Soil Prep	SW-846 5030A	1	11/18/2002 20:48	Ryan V Nolt	n.a.
00381	BNA Soil Extraction	SW-846 3550B	1	11/19/2002 19:10	Amy M Strocko	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/18/2002 19:00	Luis E Villamil	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	11/25/2002 11:00	Jayme E Curet	1
05896	Cyanide Solid Distillation	SW-846 9012A, mod.	1	11/21/2002 10:40	Cheryl L Robinson	1



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Lancaster Laboratories Sample No. SW 3940094

Collected: 11/12/2002 12:15 by TM

Account Number: 04285

Submitted: 11/14/2002 09:15

Ciba Specialty Chemicals Corp

Reported: 11/29/2002 at 11:44

Bldg 743 -Route 37 West

Discard: 01/29/2003

P.O. Box 71

SD-10M-0-6 Composite Sediment Sample

Toms River NJ 08754-0071

Pawtuxet River Sediment, RI

10M06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
01625	Thallium	7440-28-0	N.D.	1.1	mg/kg	1
01649	Cadmium	7440-43-9	N.D.	0.10	mg/kg	1
01653	Copper	7440-50-8	9.9	0.18	mg/kg	1
01655	Lead	7439-92-1	10.2	1.1	mg/kg	1
01672	Zinc	7440-66-6	33.5	0.41	mg/kg	1
00111	Moisture	n.a.	12.1	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
02079	TOC Solids/Sludges Combustion	n.a.	910.	180.	mg/kg	1
05895	Total Cyanide (solid)	57-12-5	N.D.	0.20	mg/kg	1
01216	PCBs in Solids					
01496	PCB-1221	11104-28-2	N.D.	3.8	ug/kg	1
01497	PCB-1232	11141-16-5	N.D.	3.8	ug/kg	1
01498	PCB-1242	53469-21-9	N.D.	3.8	ug/kg	1
01499	PCB-1248	12672-29-6	N.D.	3.8	ug/kg	1
01500	PCB-1254	11097-69-1	150.	3.8	ug/kg	1
01501	PCB-1260	11096-82-5	N.D.	3.8	ug/kg	1
04688	TCL SW846 Semivolatiles Soil					
03755	1,2-Dichlorobenzene	95-50-1	N.D.	38.	ug/kg	1
04693	4-Chloroaniline	106-47-8	N.D.	38.	ug/kg	1
04694	2-Methylnaphthalene	91-57-6	N.D.	38.	ug/kg	1
04689	TCL SW846 Semivolatiles/Soil					
01195	Pyrene	129-00-0	1,200.	38.	ug/kg	1
03776	Anthracene	120-12-7	230.	38.	ug/kg	1
03778	Fluoranthene	206-44-0	1,000.	38.	ug/kg	1
03781	Benzo(a)anthracene	56-55-3	580.	38.	ug/kg	1
03782	Chrysene	218-01-9	640.	38.	ug/kg	1
03786	Benzo(b)fluoranthene	205-99-2	640.	38.	ug/kg	1
03787	Benzo(k)fluoranthene	207-08-9	300.	38.	ug/kg	1
03788	Benzo(a)pyrene	50-32-8	560.	38.	ug/kg	1
03789	Indeno(1,2,3-cd)pyrene	193-39-5	460.	38.	ug/kg	1
03790	Dibenz(a,h)anthracene	53-70-3	130.	38.	ug/kg	1
03791	Benzo(g,h,i)perylene	191-24-2	440.	38.	ug/kg	1

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Lancaster Laboratories Sample No. SW 3940094

Collected: 11/12/2002 12:15 by TM

Account Number: 04285

Submitted: 11/14/2002 09:15

Ciba Specialty Chemicals Corp
Bldg 743 -Route 37 West
P.O. Box 71
Toms River NJ 08754-0071

Reported: 11/29/2002 at 11:44

Discard: 01/29/2003

SD-10M-0-6 Composite Sediment Sample

Pawtuxet River Sediment, RI

10M06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
05441	EPA SW846/8260 (soil)					
05466	Toluene	108-88-3	N.D.	1.	ug/kg	1
05472	Chlorobenzene	108-90-7	N.D.	1.	ug/kg	1
05442	EPA SW846/8260 (soil) cont					
05475	m+p-Xylene	1330-20-7	N.D.	1.	ug/kg	1
05476	o-Xylene	95-47-6	N.D.	1.	ug/kg	1
07103	Grain Size to 1 um					
07135	75 mm	n.a.	100.	0.50	%	1
07136	37.5 mm	n.a.	100.	0.50	% Passing	1
07137	19 mm	n.a.	100.	0.50	% Passing	1
07138	4.75 mm	n.a.	97.4	0.50	% Passing	1
07139	3.35 mm	n.a.	92.8	0.50	% Passing	1
07140	2.36 mm	n.a.	84.6	0.50	% Passing	1
07141	1.18 mm	n.a.	69.4	0.50	% Passing	1
07142	0.6 mm	n.a.	31.9	0.50	% Passing	1
07143	0.3 mm	n.a.	2.1	0.50	% Passing	1
07144	0.15 mm	n.a.	0.60	0.50	% Passing	1
07145	0.075 mm	n.a.	0.50	0.50	% Passing	1
07146	0.064 mm	n.a.	1.0	0.50	% Passing	1
07147	0.05 mm	n.a.	2.0	0.50	% Passing	1
07148	0.02 mm	n.a.	2.5	0.50	% Passing	1
07149	0.005 mm	n.a.	N.D.	0.50	% Passing	1
07150	0.002 mm	n.a.	N.D.	0.50	% Passing	1
07151	0.001 mm	n.a.	N.D.	0.50	% Passing	1

The hydrometer values (particle sizes 0.064 mm to 0.001 mm) are



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Lancaster Laboratories Sample No. SW 3940094

Collected: 11/12/2002 12:15 by TM

Account Number: 04285

Submitted: 11/14/2002 09:15

Ciba Specialty Chemicals Corp
Bldg 743 -Route 37 West
P.O. Box 71
Toms River NJ 08754-0071

Reported: 11/29/2002 at 11:44

Discard: 01/29/2003

SD-10M-0-6 Composite Sediment Sample

Pawtuxet River Sediment, RI

10M06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
	interpolated from the plotted data.					

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Date and Time	Analysis Analyst	Dilutio: Factor
01625	Thallium	SW-846 6010B	1	11/20/2002 03:14	Donna R Sackett	1
01649	Cadmium	SW-846 6010B	1	11/20/2002 03:14	Donna R Sackett	1
01653	Copper	SW-846 6010B	1	11/20/2002 03:14	Donna R Sackett	1
01655	Lead	SW-846 6010B	1	11/20/2002 03:14	Donna R Sackett	1
01672	Zinc	SW-846 6010B	1	11/20/2002 03:14	Donna R Sackett	1
00111	Moisture	EPA 160.3 modified	1	11/20/2002 03:14	Donna R Sackett	1
02079	TOC Solids/Sludges Combustion	SM18 5310B, modified	1	11/21/2002 09:10	Nadine Pegley Timothy M Petree	1
05895	Total Cyanide (solid)	SW-846 9012A	1	11/22/2002 13:05	Nicole M Kepley	1
01216	PCBs in Solids	SW-846 8082	1	11/21/2002 03:24	Tiffany A Leyda	1
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	11/19/2002 13:12	Jason C Arnold	1
04689	TCL SW846 Semivolatiles/Soil	SW-846 8270C	1	11/19/2002 13:12	Jason C Arnold	1
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	11/15/2002 00:49	Bryan J Polick	1
05442	EPA SW846/8260 (soil) cont	SW-846 8260B	1	11/15/2002 00:49	Bryan J Polick	1
07103	Grain Size to 1 um	ASTM D-422	1	11/15/2002 10:30	Catherine L Cammauf	1
00374	GC/MS VOA Soil Prep	SW-846 5030A	1	11/14/2002 22:51	Bryan J Polick	n.a.
00381	BNA Soil Extraction	SW-846 3550B	1	11/15/2002 10:30	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/18/2002 19:00	Luis E Villamil	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	11/19/2002 16:17	Charles R Looper	1
05896	Cyanide Solid Distillation	SW-846 9012A, mod.	1	11/19/2002 09:55	Cheryl L Robinson	1



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Lancaster Laboratories Sample No. SW 3940095

Collected: 11/12/2002 11:40 by TM

Account Number: 04285

Submitted: 11/14/2002 09:15

Ciba Specialty Chemicals Corp

Reported: 11/29/2002 at 11:44

Bldg 743 -Route 37 West

Discard: 01/29/2003

P.O. Box 71

SD-13R-0-2 Composite Sediment Sample

Toms River NJ 08754-0071

Pawtuxet River Sediment, RI

13R02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
01625	Thallium	7440-28-0	N.D.	1.1	mg/kg	1
01649	Cadmium	7440-43-9	0.30	0.10	mg/kg	1
01653	Copper	7440-50-8	20.8	0.18	mg/kg	1
01655	Lead	7439-92-1	14.8	1.1	mg/kg	1
01672	Zinc	7440-66-6	52.3	0.41	mg/kg	1
00111	Moisture	n.a.	14.8	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
02079	TOC Solids/Sludges Combustion	n.a.	2,780.	210.	mg/kg	1
05895	Total Cyanide (solid)	57-12-5	N.D.	0.21	mg/kg	1
01216 PCBs in Solids						
01496	PCB-1221	11104-28-2	N.D.	3.9	ug/kg	1
01497	PCB-1232	11141-16-5	N.D.	3.9	ug/kg	1
01498	PCB-1242	53469-21-9	N.D.	3.9	ug/kg	1
01499	PCB-1248	12672-29-6	N.D.	3.9	ug/kg	1
01500	PCB-1254	11097-69-1	58.	3.9	ug/kg	1
01501	PCB-1260	11096-82-5	N.D.	3.9	ug/kg	1
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample extraction.						
04688	TCL SW846 Semivolatiles Soil					
03755	1,2-Dichlorobenzene	95-50-1	N.D.	39.	ug/kg	1
04693	4-Chloroaniline	106-47-8	54.	39.	ug/kg	1
04694	2-Methylnaphthalene	91-57-6	N.D.	39.	ug/kg	1
04689	TCL SW846 Semivolatiles/Soil					
01195	Pyrene	129-00-0	700.	39.	ug/kg	1
03776	Anthracene	120-12-7	98.	39.	ug/kg	1
03778	Fluoranthene	206-44-0	640.	39.	ug/kg	1
03781	Benzo(a)anthracene	56-55-3	320.	39.	ug/kg	1
03782	Chrysene	218-01-9	390.	39.	ug/kg	1
03786	Benzo(b)fluoranthene	205-99-2	460.	39.	ug/kg	1
03787	Benzo(k)fluoranthene	207-08-9	200.	39.	ug/kg	1
03788	Benzo(a)pyrene	50-32-8	350.	39.	ug/kg	1
03789	Indeno(1,2,3-cd)pyrene	193-39-5	260.	39.	ug/kg	1

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Reported: 11/29/2002 at 11:44

Discard: 01/29/2003

SD-13R-0-2 Composite Sediment Sample

Pawtuxet River Sediment, RI

13R02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
03790	Dibenz(a,h)anthracene	53-70-3	63.	39.	ug/kg	1
03791	Benzo(g,h,i)perylene	191-24-2	270.	39.	ug/kg	1
05441	EPA SW846/8260 (soil)					
05466	Toluene	108-88-3	N.D.	1.	ug/kg	1
05472	Chlorobenzene	108-90-7	N.D.	1.	ug/kg	1
05442	EPA SW846/8260 (soil) cont					
05475	m+p-Xylene	1330-20-7	N.D.	1.	ug/kg	1
05476	o-Xylene	95-47-6	N.D.	1.	ug/kg	1
07103	Grain Size to 1 um					
07135	75 mm	n.a.	100.	0.50	% Passing	1
07136	37.5 mm	n.a.	100.	0.50	% Passing	1
07137	19 mm	n.a.	100.	0.50	% Passing	1
07138	4.75 mm	n.a.	99.5	0.50	% Passing	1
07139	3.35 mm	n.a.	99.1	0.50	% Passing	1
07140	2.36 mm	n.a.	98.4	0.50	% Passing	1
07141	1.18 mm	n.a.	95.7	0.50	% Passing	1
07142	0.6 mm	n.a.	72.6	0.50	% Passing	1
07143	0.3 mm	n.a.	12.4	0.50	% Passing	1
07144	0.15 mm	n.a.	3.0	0.50	% Passing	1
07145	0.075 mm	n.a.	2.1	0.50	% Passing	1
07146	0.064 mm	n.a.	3.0	0.50	% Passing	1
07147	0.05 mm	n.a.	4.0	0.50	% Passing	1
07148	0.02 mm	n.a.	3.5	0.50	% Passing	1
07149	0.005 mm	n.a.	N.D.	0.50	% Passing	1
07150	0.002 mm	n.a.	N.D.	0.50	% Passing	1
07151	0.001 mm	n.a.	N.D.	0.50	% Passing	1



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Lancaster Laboratories Sample No. SW 3940095

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Reported: 11/29/2002 at 11:44

Discard: 01/29/2003

SD-13R-0-2 Composite Sediment Sample

Pawtuxet River Sediment, RI

13R02

CAT	No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
							Passing

The hydrometer values (particle sizes 0.064 mm to 0.001 mm) are interpolated from the plotted data.

Laboratory Chronicle

CAT	No.	Analysis Name	Method	Trial#	Date and Time	Analysis	Analyst	Dilution Factor
	01625	Thallium	SW-846 6010B	1	11/20/2002 03:20		Donna R Sackett	1
	01649	Cadmium	SW-846 6010B	1	11/20/2002 03:20		Donna R Sackett	1
	01653	Copper	SW-846 6010B	1	11/20/2002 03:20		Donna R Sackett	1
	01655	Lead	SW-846 6010B	1	11/20/2002 03:20		Donna R Sackett	1
	01672	Zinc	SW-846 6010B	1	11/20/2002 03:20		Donna R Sackett	1
	00111	Moisture	EPA 160.3 modified	1	11/20/2002 03:20		Donna R Sackett	1
	02079	TOC Solids/Sludges Combustion	SM18 5310B, modified	1	11/15/2002 09:51		Nadine Fegley	1
	05895	Total Cyanide (solid)	SW-846 9012A	1	11/21/2002 09:18		Timothy M Petree	1
	01216	PCBs in Solids	SW-846 8082	1	11/22/2002 13:06		Nicole M Kepley	1
	04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	11/21/2002 03:47		Tiffany A Leyda	1
	04689	TCL SW846 Semivolatiles/Soil	SW-846 8270C	1	11/19/2002 14:13		Jason C Arnold	1
	05441	EPA SW846/8260 (soil)	SW-846 8260B	1	11/15/2002 01:19		Bryan J Polick	1
	05442	EPA SW846/8260 (soil) cont	SW-846 8260B	1	11/15/2002 01:19		Bryan J Polick	1
	07103	Grain Size to 1 um	ASTM D-422	1	11/15/2002 10:30		Catherine L Cammauf	1
	00374	GC/MS VOA Soil Prep	SW-846 5030A	1	11/14/2002 22:53		Bryan J Polick	n.a.
	00381	BNA Soil Extraction	SW-846 3550B	1	11/15/2002 10:30		Olivia Arosemena	1
	00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/18/2002 19:00		Luis E Villamil	1
	05708	SW SW846 ICP Digest	SW-846 3050B	1	11/19/2002 16:17		Charles R Looper	1
	05896	Cyanide Solid Distillation	SW-846 9012A, mod.	1	11/19/2002 09:55		Cheryl L Robinson	1



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Lancaster Laboratories Sample No. SW 3940096

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Reported: 11/29/2002 at 11:45

Discard: 01/29/2003

SD-13R-2-4 Composite Sediment Sample

Pawtuxet River Sediment, RI

13R24

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
01625	Thallium	7440-28-0	N.D.	1.1	mg/kg	1
01649	Cadmium	7440-43-9	0.16	0.10	mg/kg	1
01653	Copper	7440-50-8	11.3	0.18	mg/kg	1
01655	Lead	7439-92-1	10.9	1.1	mg/kg	1
01672	Zinc	7440-66-6	30.1	0.40	mg/kg	1
00111	Moisture	n.a.	13.7	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
02079	TOC Solids/Sludges Combustion	n.a.	3,370.	140.	mg/kg	1
05895	Total Cyanide (solid)	57-12-5	N.D.	0.20	mg/kg	1
01216	PCBs in Solids					
01496	PCB-1221	11104-28-2	N.D.	3.8	ug/kg	1
01497	PCB-1232	11141-16-5	N.D.	3.8	ug/kg	1
01498	PCB-1242	53469-21-9	N.D.	3.8	ug/kg	1
01499	PCB-1248	12672-29-6	N.D.	3.8	ug/kg	1
01500	PCB-1254	11097-69-1	35.	3.8	ug/kg	1
01501	PCB-1260	11096-82-5	N.D.	3.8	ug/kg	1
04688	TCL SW846 Semivolatiles Soil					
03755	1,2-Dichlorobenzene	95-50-1	N.D.	38.	ug/kg	1
04693	4-Chloroaniline	106-47-8	N.D.	38.	ug/kg	1
04694	2-Methylnaphthalene	91-57-6	N.D.	38.	ug/kg	1
04689	TCL SW846 Semivolatiles/Soil					
01195	Pyrene	129-00-0	570.	38.	ug/kg	1
03776	Anthracene	120-12-7	67.	38.	ug/kg	1
03778	Fluoranthene	206-44-0	490.	38.	ug/kg	1
03781	Benzo(a)anthracene	56-55-3	270.	38.	ug/kg	1
03782	Chrysene	218-01-9	320.	38.	ug/kg	1
03786	Benzo(b)fluoranthene	205-99-2	380.	38.	ug/kg	1
03787	Benzo(k)fluoranthene	207-08-9	160.	38.	ug/kg	1
03788	Benzo(a)pyrene	50-32-8	290.	38.	ug/kg	1
03789	Indeno(1,2,3-cd)pyrene	193-39-5	200.	38.	ug/kg	1
03790	Dibenz(a,h)anthracene	53-70-3	53.	38.	ug/kg	1
03791	Benzo(g,h,i)perylene	191-24-2	210.	38.	ug/kg	1

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Lancaster Laboratories Sample No. SW 3940096

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Reported: 11/29/2002 at 11:45

Discard: 01/29/2003

SD-13R-2-4 Composite Sediment Sample

Pawtuxet River Sediment, RI

13R24

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
05441	EPA SW846/8260 (soil)					
05466	Toluene	108-88-3	N.D.	1.	ug/kg	1
05472	Chlorobenzene	108-90-7	N.D.	1.	ug/kg	1
05442	EPA SW846/8260 (soil) cont					
05475	m+p-Xylene	1330-20-7	N.D.	1.	ug/kg	1
05476	o-Xylene	95-47-6	N.D.	1.	ug/kg	1
07103	Grain Size to 1 um					
07135	75 mm	n.a.	100.	0.50	%	1
07136	37.5 mm	n.a.	100.	0.50	% Passing	1
07137	19 mm	n.a.	100.	0.50	% Passing	1
07138	4.75 mm	n.a.	99.4	0.50	% Passing	1
07139	3.35 mm	n.a.	99.1	0.50	% Passing	1
07140	2.36 mm	n.a.	98.5	0.50	% Passing	1
07141	1.18 mm	n.a.	96.9	0.50	% Passing	1
07142	0.6 mm	n.a.	75.6	0.50	% Passing	1
07143	0.3 mm	n.a.	15.3	0.50	% Passing	1
07144	0.15 mm	n.a.	3.3	0.50	% Passing	1
07145	0.075 mm	n.a.	2.6	0.50	% Passing	1
07146	0.064 mm	n.a.	3.0	0.50	% Passing	1
07147	0.05 mm	n.a.	3.0	0.50	% Passing	1
07148	0.02 mm	n.a.	2.5	0.50	% Passing	1
07149	0.005 mm	n.a.	N.D.	0.50	% Passing	1
07150	0.002 mm	n.a.	N.D.	0.50	% Passing	1
07151	0.001 mm	n.a.	N.D.	0.50	% Passing	1

The hydrometer values (particle sizes 0.064 mm to 0.001 mm) are



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Lancaster Laboratories Sample No. SW 3940096

Collected: 11/12/2002 11:40 by TM

Account Number: 04285

Submitted: 11/14/2002 09:15

Ciba Specialty Chemicals Corp
Bldg 743 -Route 37 West
P.O. Box 71
Toms River NJ 08754-0071

Reported: 11/29/2002 at 11:45

Discard: 01/29/2003

SD-13R-2-4 Composite Sediment Sample

Pawtuxet River Sediment, RI

13R24

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
	interpolated from the plotted data.					

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Date and Time	Analysis Analyst	Dilutio: Factor
01625	Thallium	SW-846 6010B	1	11/20/2002 03:25	Donna R Sackett	1
01649	Cadmium	SW-846 6010B	1	11/20/2002 03:25	Donna R Sackett	1
01653	Copper	SW-846 6010B	1	11/20/2002 03:25	Donna R Sackett	1
01655	Lead	SW-846 6010B	1	11/20/2002 03:25	Donna R Sackett	1
01672	Zinc	SW-846 6010B	1	11/20/2002 03:25	Donna R Sackett	1
00111	Moisture	EPA 160.3 modified	1	11/20/2002 03:25	Donna R Sackett	1
02079	TOC Solids/Sludges Combustion	SM18 5310B, modified	1	11/15/2002 09:51	Nadine Fegley	1
			1	11/21/2002 09:28	Timothy M Petree	1
05895	Total Cyanide (solid)	SW-846 9012A	1	11/22/2002 13:07	Nicole M Kepley	1
01216	PCBs in Solids	SW-846 8082	1	11/21/2002 04:10	Tiffany A Leyda	1
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	11/19/2002 15:14	Jason C Arnold	1
04689	TCL SW846 Semivolatiles/Soil	SW-846 8270C	1	11/19/2002 15:14	Jason C Arnold	1
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	11/15/2002 01:50	Bryan J Polick	1
05442	EPA SW846/8260 (soil) cont	SW-846 8260B	1	11/15/2002 01:50	Bryan J Polick	1
07103	Grain Size to 1 um	ASTM D-422	1	11/15/2002 10:30	Catherine L Cammauf	1
00374	GC/MS VOA Soil Prep	SW-846 5030A	1	11/14/2002 23:10	Bryan J Polick	n.a.
00381	BNA Soil Extraction	SW-846 3550B	1	11/15/2002 10:30	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/18/2002 19:00	Luis E Villamil	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	11/19/2002 16:17	Charles R Looper	1
05896	Cyanide Solid Distillation	SW-846 9012A, mod.	1	11/19/2002 09:55	Cheryl L Robinson	1



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Lancaster Laboratories Sample No. SW 3940097

Collected: 11/12/2002 11:40 by TM

Account Number: 04285

Submitted: 11/14/2002 09:15

Ciba Specialty Chemicals Corp
Bldg 743 -Route 37 West
P.O. Box 71
Toms River NJ 08754-0071

Reported: 11/29/2002 at 11:45

Discard: 01/29/2003

SD-13R-4-6 Composite Sediment Sample

Pawtuxet River Sediment, RI

13R46

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
01625	Thallium	7440-28-0	N.D.	1.1	mg/kg	1
01649	Cadmium	7440-43-9	0.18	0.11	mg/kg	1
01653	Copper	7440-50-8	10.7	0.19	mg/kg	1
01655	Lead	7439-92-1	24.4	1.1	mg/kg	1
01672	Zinc	7440-66-6	33.3	0.42	mg/kg	1
00111	Moisture	n.a.	15.6	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
02079	TOC Solids/Sludges Combustion	n.a.	1,890.	180.	mg/kg	1
05895	Total Cyanide (solid)	57-12-5	N.D.	0.20	mg/kg	1
01216	PCBs in Solids					
01496	PCB-1221	11104-28-2	N.D.	3.9	ug/kg	1
01497	PCB-1232	11141-16-5	N.D.	3.9	ug/kg	1
01498	PCB-1242	53469-21-9	N.D.	3.9	ug/kg	1
01499	PCB-1248	12672-29-6	N.D.	3.9	ug/kg	1
01500	PCB-1254	11097-69-1	26.	3.9	ug/kg	1
01501	PCB-1260	11096-82-5	71.	3.9	ug/kg	1
04688	TCL SW846 Semivolatiles Soil					
03755	1,2-Dichlorobenzene	95-50-1	N.D.	39.	ug/kg	1
04693	4-Chloroaniline	106-47-8	N.D.	39.	ug/kg	1
04694	2-Methylnaphthalene	91-57-6	N.D.	39.	ug/kg	1
04689	TCL SW846 Semivolatiles/Soil					
01195	Pyrene	129-00-0	430.	39.	ug/kg	1
03776	Anthracene	120-12-7	56.	39.	ug/kg	1
03778	Fluoranthene	206-44-0	370.	39.	ug/kg	1
03781	Benzo(a)anthracene	56-55-3	200.	39.	ug/kg	1
03782	Chrysene	218-01-9	250.	39.	ug/kg	1
03786	Benzo(b)fluoranthene	205-99-2	290.	39.	ug/kg	1
03787	Benzo(k)fluoranthene	207-08-9	110.	39.	ug/kg	1
03788	Benzo(a)pyrene	50-32-8	210.	39.	ug/kg	1
03789	Indeno(1,2,3-cd)pyrene	193-39-5	170.	39.	ug/kg	1
03790	Dibenz(a,h)anthracene	53-70-3	45.	39.	ug/kg	1
03791	Benzo(g,h,i)perylene	191-24-2	150.	39.	ug/kg	1

Lancaster Laboratories, Inc.

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Lancaster Laboratories Sample No. SW 3940097

Collected: 11/12/2002 11:40 by TM

Account Number: 04285

Submitted: 11/14/2002 09:15

Ciba Specialty Chemicals Corp
Bldg 743 -Route 37 West
P.O. Box 71
Toms River NJ 08754-0071

Reported: 11/29/2002 at 11:45

Discard: 01/29/2003

SD-13R-4-6 Composite Sediment Sample

Pawtuxet River Sediment, RI

13R46

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
05441	EPA SW846/8260 (soil)					
05466	Toluene	108-88-3	N.D.	1.	ug/kg	1
05472	Chlorobenzene	108-90-7	N.D.	1.	ug/kg	1
05442	EPA SW846/8260 (soil) cont					
05475	m+p-Xylene	1330-20-7	N.D.	1.	ug/kg	1
05476	o-Xylene	95-47-6	N.D.	1.	ug/kg	1
07103	Grain Size to 1 um					
07135	75 mm	n.a.	100.	0.50	% Passing	1
07136	37.5 mm	n.a.	100.	0.50	% Passing	1
07137	19 mm	n.a.	100.	0.50	% Passing	1
07138	4.75 mm	n.a.	100.	0.50	% Passing	1
07139	3.35 mm	n.a.	99.7	0.50	% Passing	1
07140	2.36 mm	n.a.	99.3	0.50	% Passing	1
07141	1.18 mm	n.a.	97.4	0.50	% Passing	1
07142	0.6 mm	n.a.	76.7	0.50	% Passing	1
07143	0.3 mm	n.a.	8.7	0.50	% Passing	1
07144	0.15 mm	n.a.	1.6	0.50	% Passing	1
07145	0.075 mm	n.a.	1.5	0.50	% Passing	1
07146	0.064 mm	n.a.	2.0	0.50	% Passing	1
07147	0.05 mm	n.a.	3.0	0.50	% Passing	1
07148	0.02 mm	n.a.	3.0	0.50	% Passing	1
07149	0.005 mm	n.a.	N.D.	0.50	% Passing	1
07150	0.002 mm	n.a.	N.D.	0.50	% Passing	1
07151	0.001 mm	n.a.	N.D.	0.50	% Passing	1

The hydrometer values (particle sizes 0.064 mm to 0.001 mm) are



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Lancaster Laboratories Sample No. SW 3940097

Collected: 11/12/2002 11:40 by TM

Account Number: 04285

Submitted: 11/14/2002 09:15

Ciba Specialty Chemicals Corp
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P.O. Box 71
Toms River NJ 08754-0071

Reported: 11/29/2002 at 11:45

Discard: 01/29/2003

SD-13R-4-6 Composite Sediment Sample

Pawtuxet River Sediment, RI

13R46

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
	interpolated from the plotted data.					

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Date and Time	Analysis Analyst	Dilution Factor
01625	Thallium	SW-846 6010B	1	11/20/2002 03:31	Donna R Sackett	1
01649	Cadmium	SW-846 6010B	1	11/20/2002 03:31	Donna R Sackett	1
01653	Copper	SW-846 6010B	1	11/20/2002 03:31	Donna R Sackett	1
01655	Lead	SW-846 6010B	1	11/20/2002 03:31	Donna R Sackett	1
01672	Zinc	SW-846 6010B	1	11/20/2002 03:31	Donna R Sackett	1
00111	Moisture	EPA 160.3 modified	1	11/20/2002 03:31	Donna R Sackett	1
02079	TOC Solids/Sludges Combustion	SM18 5310B, modified	1	11/15/2002 09:51	Nadine Fegley	1
			1	11/21/2002 11:52	Timothy M Petree	1
05895	Total Cyanide (solid)	SW-846 9012A	1	11/22/2002 13:08	Nicole M Kepley	1
01216	PCBs in Solids	SW-846 8082	1	11/21/2002 04:33	Tiffany A Leyda	1
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	11/19/2002 16:14	Jason C Arnold	1
04689	TCL SW846 Semivolatiles/Soil	SW-846 8270C	1	11/19/2002 16:14	Jason C Arnold	1
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	11/15/2002 02:21	Bryan J Polick	1
05442	EPA SW846/8260 (soil) cont	SW-846 8260B	1	11/15/2002 02:21	Bryan J Polick	1
07103	Grain Size to 1 um	ASTM D-422	1	11/15/2002 10:30	Catherine L Cammauf	1
00374	GC/MS VOA Soil Prep	SW-846 5030A	1	11/14/2002 23:12	Bryan J Polick	n.a.
00381	BNA Soil Extraction	SW-846 3550B	1	11/15/2002 10:30	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/18/2002 19:00	Luis E Villamil	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	11/19/2002 16:17	Charles R Looper	1
05896	Cyanide Solid Distillation	SW-846 9012A, mod.	1	11/19/2002 09:55	Cheryl L Robinson	1



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Lancaster Laboratories Sample No. SW 3940098

Collected: 11/12/2002 11:40 by TM

Account Number: 04285

Submitted: 11/14/2002 09:15

Ciba Specialty Chemicals Corp
Bldg 743 -Route 37 West
P.O. Box 71
Toms River NJ 08754-0071

Reported: 11/29/2002 at 11:45

Discard: 01/29/2003

SD-13R-6-12 Composite Sediment Sample

Pawtuxet River Sediment, RI

13R61

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
01625	Thallium	7440-28-0	N.D.	1.2	mg/kg	1
01649	Cadmium	7440-43-9	0.39	0.11	mg/kg	1
01653	Copper	7440-50-8	12.1	0.19	mg/kg	1
01655	Lead	7439-92-1	11.9	1.1	mg/kg	1
01672	Zinc	7440-66-6	35.1	0.42	mg/kg	1
00111	Moisture	n.a.	14.8	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
02079	TOC Solids/Sludges Combustion	n.a.	5,230.	130.	mg/kg	1
05895	Total Cyanide (solid)	57-12-5	N.D.	0.20	mg/kg	1
01216	PCBs in Solids					
01496	PCB-1221	11104-28-2	N.D.	3.9	ug/kg	1
01497	PCB-1232	11141-16-5	N.D.	3.9	ug/kg	1
01498	PCB-1242	53469-21-9	N.D.	3.9	ug/kg	1
01499	PCB-1248	12672-29-6	N.D.	3.9	ug/kg	1
01500	PCB-1254	11097-69-1	38.	3.9	ug/kg	1
01501	PCB-1260	11096-82-5	14.	3.9	ug/kg	1
04688	TCL SW846 Semivolatiles Soil					
03755	1,2-Dichlorobenzene	95-50-1	N.D.	39.	ug/kg	1
04693	4-Chloroaniline	106-47-8	N.D.	39.	ug/kg	1
04694	2-Methylnaphthalene	91-57-6	N.D.	39.	ug/kg	1
04689	TCL SW846 Semivolatiles/Soil					
01195	Pyrene	129-00-0	420.	39.	ug/kg	1
03776	Anthracene	120-12-7	51.	39.	ug/kg	1
03778	Fluoranthene	206-44-0	400.	39.	ug/kg	1
03781	Benzo(a)anthracene	56-55-3	220.	39.	ug/kg	1
03782	Chrysene	218-01-9	220.	39.	ug/kg	1
03786	Benzo(b)fluoranthene	205-99-2	300.	39.	ug/kg	1
03787	Benzo(k)fluoranthene	207-08-9	110.	39.	ug/kg	1
03788	Benzo(a)pyrene	50-32-8	230.	39.	ug/kg	1
03789	Indeno(1,2,3-cd)pyrene	193-39-5	180.	39.	ug/kg	1
03790	Dibenz(a,h)anthracene	53-70-3	52.	39.	ug/kg	1
03791	Benzo(g,h,i)perylene	191-24-2	180.	39.	ug/kg	1

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Lancaster Laboratories Sample No. SW 3940098

Collected: 11/12/2002 11:40 by TM

Account Number: 04285

Submitted: 11/14/2002 09:15

Ciba Specialty Chemicals Corp

Reported: 11/29/2002 at 11:45

Bldg 743 -Route 37 West

Discard: 01/29/2003

P.O. Box 71

SD-13R-6-12 Composite Sediment Sample

Toms River NJ 08754-0071

Pawtuxet River Sediment, RI

13R61

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
05441	EPA SW846/8260 (soil)					
05466	Toluene	108-88-3	N.D.	1.	ug/kg	1
05472	Chlorobenzene	108-90-7	N.D.	1.	ug/kg	1
05442	EPA SW846/8260 (soil) cont					
05475	m+p-Xylene	1330-20-7	N.D.	1.	ug/kg	1
05476	o-Xylene	95-47-6	N.D.	1.	ug/kg	1
07103	Grain Size to 1 um					
07135	75 mm	n.a.	100.	0.50	%	1
07136	37.5 mm	n.a.	100.	0.50	% Passing	1
07137	19 mm	n.a.	100.	0.50	% Passing	1
07138	4.75 mm	n.a.	99.2	0.50	% Passing	1
07139	3.35 mm	n.a.	98.2	0.50	% Passing	1
07140	2.36 mm	n.a.	96.7	0.50	% Passing	1
07141	1.18 mm	n.a.	92.6	0.50	% Passing	1
07142	0.6 mm	n.a.	67.4	0.50	% Passing	1
07143	0.3 mm	n.a.	8.5	0.50	% Passing	1
07144	0.15 mm	n.a.	7.5	0.50	% Passing	1
07145	0.075 mm	n.a.	7.3	0.50	% Passing	1
07146	0.064 mm	n.a.	7.0	0.50	% Passing	1
07147	0.05 mm	n.a.	5.0	0.50	% Passing	1
07148	0.02 mm	n.a.	3.0	0.50	% Passing	1
07149	0.005 mm	n.a.	N.D.	0.50	% Passing	1
07150	0.002 mm	n.a.	N.D.	0.50	% Passing	1
07151	0.001 mm	n.a.	N.D.	0.50	% Passing	1

The hydrometer values (particle sizes 0.064 mm to 0.001 mm) are



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Lancaster Laboratories Sample No. SW 3940098

Collected: 11/12/2002 11:40 by TM

Account Number: 04285

Submitted: 11/14/2002 09:15

Ciba Specialty Chemicals Corp
Bldg 743 -Route 37 West
P.O. Box 71
Toms River NJ 08754-0071

Reported: 11/29/2002 at 11:45

Discard: 01/29/2003

SD-13R-6-12 Composite Sediment Sample

Pawtuxet River Sediment, RI

13R61

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
	interpolated from the plotted data.					

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Date and Time	Analysis Analyst	Dilution Factor
01625	Thallium	SW-846 6010B	1	11/20/2002 03:36	Donna R Sackett		1
01649	Cadmium	SW-846 6010B	1	11/20/2002 03:36	Donna R Sackett		1
01653	Copper	SW-846 6010B	1	11/20/2002 03:36	Donna R Sackett		1
01655	Lead	SW-846 6010B	1	11/20/2002 03:36	Donna R Sackett		1
01672	Zinc	SW-846 6010B	1	11/20/2002 03:36	Donna R Sackett		1
00111	Moisture	EPA 160.3 modified	1	11/20/2002 03:36	Donna R Sackett		1
02079	TOC Solids/Sludges Combustion	SM18 5310B, modified	1	11/15/2002 09:51	Nadine Fegley		1
			1	11/21/2002 11:59	Timothy M Petree		1
05895	Total Cyanide (solid)	SW-846 9012A	1	11/22/2002 13:12	Nicole M Kepley		1
01216	PCBs in Solids	SW-846 8082	1	11/21/2002 04:57	Tiffany A Leyda		1
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	11/19/2002 17:15	Jason C Arnold		1
04689	TCL SW846 Semivolatiles/Soil	SW-846 8270C	1	11/19/2002 17:15	Jason C Arnold		1
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	11/15/2002 02:51	Bryan J Polick		1
05442	EPA SW846/8260 (soil) cont	SW-846 8260B	1	11/15/2002 02:51	Bryan J Polick		1
07103	Grain Size to 1 um	ASTM D-422	1	11/15/2002 10:30	Catherine L Cammauf		1
00374	GC/MS VOA Soil Prep	SW-846 5030A	1	11/14/2002 23:14	Bryan J Polick	n.a.
00381	BNA Soil Extraction	SW-846 3550B	1	11/15/2002 10:30	Olivia Arosemena		1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/18/2002 19:00	Luis E Villamil		1
05708	SW SW846 ICP Digest	SW-846 3050B	1	11/19/2002 16:17	Charles R Looper		1
05896	Cyanide Solid Distillation	SW-846 9012A, mod.	1	11/19/2002 09:55	Cheryl L Robinson	1



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Lancaster Laboratories Sample No. SW 3940099

Collected: 11/12/2002 11:15 by TM

Account Number: 04285

Submitted: 11/14/2002 09:15

Ciba Specialty Chemicals Corp
Bldg 743 -Route 37 West
P.O. Box 71
Toms River NJ 08754-0071

Reported: 11/29/2002 at 11:46

Discard: 01/29/2003

SD-16M-0-2 Composite Sediment Sample

Pawtuxet River Sediment, RI

16M02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
01625	Thallium	7440-28-0	N.D.	1.1	mg/kg	1
01649	Cadmium	7440-43-9	0.84	0.10	mg/kg	1
01653	Copper	7440-50-8	18.7	0.18	mg/kg	1
01655	Lead	7439-92-1	31.3	1.0	mg/kg	1
01672	Zinc	7440-66-6	45.9	0.40	mg/kg	1
00111	Moisture	n.a.	12.0	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
02079	TOC Solids/Sludges Combustion	n.a.	3,420.	210.	mg/kg	1
05895	Total Cyanide (solid)	57-12-5	N.D.	0.20	mg/kg	1
01216	PCBs in Solids					
01496	PCB-1221	11104-28-2	N.D.	3.8	ug/kg	1
01497	PCB-1232	11141-16-5	N.D.	3.8	ug/kg	1
01498	PCB-1242	53469-21-9	N.D.	3.8	ug/kg	1
01499	PCB-1248	12672-29-6	N.D.	3.8	ug/kg	1
01500	PCB-1254	11097-69-1	69.	3.8	ug/kg	1
01501	PCB-1260	11096-82-5	20.	3.8	ug/kg	1
04688	TCL SW846 Semivolatiles Soil					
03755	1,2-Dichlorobenzene	95-50-1	N.D.	38.	ug/kg	1
04693	4-Chloroaniline	106-47-8	67.	38.	ug/kg	1
04694	2-Methylnaphthalene	91-57-6	N.D.	38.	ug/kg	1
04689	TCL SW846 Semivolatiles/Soil					
01195	Pyrene	129-00-0	870.	38.	ug/kg	1
03776	Anthracene	120-12-7	120.	38.	ug/kg	1
03778	Fluoranthene	206-44-0	850.	38.	ug/kg	1
03781	Benz(a)anthracene	56-55-3	420.	38.	ug/kg	1
03782	Chrysene	218-01-9	460.	38.	ug/kg	1
03786	Benzo(b)fluoranthene	205-99-2	570.	38.	ug/kg	1
03787	Benzo(k)fluoranthene	207-08-9	250.	38.	ug/kg	1
03788	Benzo(a)pyrene	50-32-8	420.	38.	ug/kg	1
03789	Indeno(1,2,3-cd)pyrene	193-39-5	310.	38.	ug/kg	1
03790	Dibenz(a,h)anthracene	53-70-3	92.	38.	ug/kg	1
03791	Benzo(g,h,i)perylene	191-24-2	270.	38.	ug/kg	1

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Lancaster Laboratories Sample No. SW 3940099

Collected: 11/12/2002 11:15 by TM

Account Number: 04285

Submitted: 11/14/2002 09:15

Ciba Specialty Chemicals Corp
Bldg 743 -Route 37 West
P.O. Box 71
Toms River NJ 08754-0071

Reported: 11/29/2002 at 11:46

Discard: 01/29/2003

SD-16M-0-2 Composite Sediment Sample

Pawtuxet River Sediment, RI

16M02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
05441	EPA SW846/8260 (soil)					
05466	Toluene	108-88-3	N.D.	1.	ug/kg	1
05472	Chlorobenzene	108-90-7	N.D.	1.	ug/kg	1
05442	EPA SW846/8260 (soil) cont					
05475	m+p-Xylene	1330-20-7	N.D.	1.	ug/kg	1
05476	o-Xylene	95-47-6	N.D.	1.	ug/kg	1
07103	Grain Size to 1 um					
07135	75 mm	n.a.	100.	0.50	%	1
07136	37.5 mm	n.a.	100.	0.50	% Passing	1
07137	19 mm	n.a.	100.	0.50	% Passing	1
07138	4.75 mm	n.a.	99.4	0.50	% Passing	1
07139	3.35 mm	n.a.	99.2	0.50	% Passing	1
07140	2.36 mm	n.a.	98.9	0.50	% Passing	1
07141	1.18 mm	n.a.	96.0	0.50	% Passing	1
07142	0.6 mm	n.a.	59.6	0.50	% Passing	1
07143	0.3 mm	n.a.	7.9	0.50	% Passing	1
07144	0.15 mm	n.a.	4.9	0.50	% Passing	1
07145	0.075 mm	n.a.	4.4	0.50	% Passing	1
07146	0.064 mm	n.a.	4.5	0.50	% Passing	1
07147	0.05 mm	n.a.	4.0	0.50	% Passing	1
07148	0.02 mm	n.a.	3.0	0.50	% Passing	1
07149	0.005 mm	n.a.	N.D.	0.50	% Passing	1
07150	0.002 mm	n.a.	N.D.	0.50	% Passing	1
07151	0.001 mm	n.a.	N.D.	0.50	% Passing	1

The hydrometer values (particle sizes 0.064 mm to 0.001 mm) are



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Lancaster Laboratories Sample No. SW 3940099

Collected: 11/12/2002 11:15 by TM

Account Number: 04285

Submitted: 11/14/2002 09:15

Ciba Specialty Chemicals Corp
Bldg 743 -Route 37 West
P.O. Box 71
Toms River NJ 08754-0071

Reported: 11/29/2002 at 11:46

Discard: 01/29/2003

SD-16M-0-2 Composite Sediment Sample

Pawtuxet River Sediment, RI

16M02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
	interpolated from the plotted data.					

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Date and Time	Analysis		Dilution Factor
					Analyst		
01625	Thallium	SW-846 6010B	1	11/20/2002 03:42	Donna R Sackett		1
01649	Cadmium	SW-846 6010B	1	11/20/2002 03:42	Donna R Sackett		1
01653	Copper	SW-846 6010B	1	11/20/2002 03:42	Donna R Sackett		1
01655	Lead	SW-846 6010B	1	11/20/2002 03:42	Donna R Sackett		1
01672	Zinc	SW-846 6010B	1	11/20/2002 03:42	Donna R Sackett		1
00111	Moisture	EPA 160.3 modified	1	11/20/2002 03:42	Donna R Sackett		1
02079	TOC Solids/Sludges Combustion	SM18 5310B, modified	1	11/15/2002 09:51	Nadine Fegley		1
			1	11/21/2002 12:06	Timothy M Petree		1
05895	Total Cyanide (solid)	SW-846 9012A	1	11/22/2002 13:13	Nicole M Kepley		1
01216	PCBs in Solids	SW-846 8082	1	11/21/2002 05:20	Tiffany A Leyda		1
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	11/19/2002 23:28	Linda M Hartenstine		1
04689	TCL SW846 Semivolatiles/Soil	SW-846 8270C	1	11/19/2002 23:28	Linda M Hartenstine		1
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	11/15/2002 03:22	Bryan J Polick		1
05442	EPA SW846/8260 (soil) cont	SW-846 8260B	1	11/15/2002 03:22	Bryan J Polick		1
07103	Grain Size to 1 um	ASTM D-422	1	11/15/2002 10:30	Catherine L Cammauf		1
00374	GC/MS VOA Soil Prep	SW-846 5030A	1	11/14/2002 23:15	Bryan J Polick	n.a.	
00381	BNA Soil Extraction	SW-846 3550B	1	11/15/2002 10:30	Olivia Arosemena		1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/18/2002 19:00	Luis E Villamil		1
05708	SW SW846 ICP Digest	SW-846 3050B	1	11/19/2002 16:17	Charles R Looper		1
05896	Cyanide Solid Distillation	SW-846 9012A, mod.	1	11/19/2002 09:55	Cheryl L Robinson		1

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Lancaster Laboratories Sample No. SW 3940100

Collected: 11/12/2002 11:15 by TM

Account Number: 04285

Submitted: 11/14/2002 09:15

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P.O. Box 71
Toms River NJ 08754-0071

Reported: 11/29/2002 at 11:46

Discard: 01/29/2003

SD-16M-2-4 Composite Sediment Sample

Pawtuxet River Sediment, RI

16M24

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
01625	Thallium	7440-28-0	N.D.	1.0	mg/kg	1
01649	Cadmium	7440-43-9	0.15	0.097	mg/kg	1
01653	Copper	7440-50-8	10.9	0.17	mg/kg	1
01655	Lead	7439-92-1	12.6	1.00	mg/kg	1
01672	Zinc	7440-66-6	34.0	0.38	mg/kg	1
00111	Moisture	n.a.	7.64	0.50	mg/kg	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.				%	
02079	TOC Solids/Sludges Combustion	n.a.	2,140.	120.	mg/kg	1
05895	Total Cyanide (solid)	57-12-5	N.D.	0.19	mg/kg	1
01216	PCBs in Solids					
01496	PCB-1221	11104-28-2	N.D.	180.	ug/kg	50
01497	PCB-1232	11141-16-5	N.D.	180.	ug/kg	50
01498	PCB-1242	53469-21-9	N.D.	180.	ug/kg	50
01499	PCB-1248	12672-29-6	N.D.	180.	ug/kg	50
01500	PCB-1254	11097-69-1	1,300.	180.	ug/kg	50
01501	PCB-1260	11096-82-5	N.D.	180.	ug/kg	50
	Accurate surrogate recoveries could not be determined due to the dilution required for analysis of the sample.					
04688	TCL SW846 Semivolatiles Soil					
03755	1,2-Dichlorobenzene	95-50-1	N.D.	36.	ug/kg	1
04693	4-Chloroaniline	106-47-8	47.	36.	ug/kg	1
04694	2-Methylnaphthalene	91-57-6	N.D.	36.	ug/kg	1
04689	TCL SW846 Semivolatiles/Soil					
01195	Pyrene	129-00-0	830.	36.	ug/kg	1
03776	Anthracene	120-12-7	120.	36.	ug/kg	1
03778	Fluoranthene	206-44-0	820.	36.	ug/kg	1
03781	Benzo(a)anthracene	56-55-3	470.	36.	ug/kg	1
03782	Chrysene	218-01-9	590.	36.	ug/kg	1
03786	Benzo(b)fluoranthene	205-99-2	610.	36.	ug/kg	1
03787	Benzo(k)fluoranthene	207-08-9	240.	36.	ug/kg	1
03788	Benzo(a)pyrene	50-32-8	450.	36.	ug/kg	1
03789	Indeno(1,2,3-cd)pyrene	193-39-5	380.	36.	ug/kg	1

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Lancaster Laboratories Sample No. SW 3940100

Collected: 11/12/2002 11:15 by TM

Account Number: 04285

Submitted: 11/14/2002 09:15

Ciba Specialty Chemicals Corp
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P.O. Box 71
Toms River NJ 08754-0071

Reported: 11/29/2002 at 11:46

Discard: 01/29/2003

SD-16M-2-4 Composite Sediment Sample

Pawtuxet River Sediment, RI

16M24

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
03790	Dibenz(a,h)anthracene	53-70-3	110.	36.	ug/kg	1
03791	Benzo(g,h,i)perylene	191-24-2	360.	36.	ug/kg	1
05441	EPA SW846/8260 (soil)					
05466	Toluene	108-88-3	N.D.	1.	ug/kg	1
05472	Chlorobenzene	108-90-7	N.D.	1.	ug/kg	1
05442	EPA SW846/8260 (soil) cont					
05475	m+p-Xylene	1330-20-7	N.D.	1.	ug/kg	1
05476	c-Xylene	95-47-6	N.D.	1.	ug/kg	1
07103	Grain Size to 1 um					
07135	75 mm	n.a.	100.	0.50	% Passing	1
07136	37.5 mm	n.a.	100.	0.50	% Passing	1
07137	19 mm	n.a.	100.	0.50	% Passing	1
07138	4.75 mm	n.a.	99.6	0.50	% Passing	1
07139	3.35 mm	n.a.	99.5	0.50	% Passing	1
07140	2.36 mm	n.a.	99.1	0.50	% Passing	1
07141	1.18 mm	n.a.	95.2	0.50	% Passing	1
07142	0.6 mm	n.a.	52.7	0.50	% Passing	1
07143	0.3 mm	n.a.	6.9	0.50	% Passing	1
07144	0.15 mm	n.a.	4.6	0.50	% Passing	1
07145	0.075 mm	n.a.	4.5	0.50	% Passing	1
07146	0.064 mm	n.a.	5.0	0.50	% Passing	1
07147	0.05 mm	n.a.	4.5	0.50	% Passing	1
07148	0.02 mm	n.a.	3.0	0.50	% Passing	1
07149	0.005 mm	n.a.	N.D.	0.50	% Passing	1
07150	0.002 mm	n.a.	N.D.	0.50	% Passing	1
07151	0.001 mm	n.a.	N.D.	0.50	% Passing	1

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Lancaster Laboratories Sample No. SW 3940100

Collected: 11/12/2002 11:15 by TM

Account Number: 04285

Submitted: 11/14/2002 09:15

Ciba Specialty Chemicals Corp
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Reported: 11/29/2002 at 11:46

Discard: 01/29/2003

SD-16M-2-4 Composite Sediment Sample

Pawtuxet River Sediment, RI

16M24

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
						Passing

The hydrometer values (particle sizes 0.064 mm to 0.001 mm) are interpolated from the plotted data.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Date and Time	Analysis	Analyst	Dilution Factor
01625	Thallium	SW-846 6010B	1	11/20/2002 03:47		Donna R Sackett	1
01649	Cadmium	SW-846 6010B	1	11/20/2002 03:47		Donna R Sackett	1
01653	Copper	SW-846 6010B	1	11/20/2002 03:47		Donna R Sackett	1
01655	Lead	SW-846 6010B	1	11/20/2002 03:47		Donna R Sackett	1
01672	Zinc	SW-846 6010B	1	11/20/2002 03:47		Donna R Sackett	1
00111	Moisture	EPA 160.3 modified	1	11/20/2002 03:47		Donna R Sackett	1
02079	TOC Solids/Sludges Combustion	SM18 5310B, modified	1	11/15/2002 09:51		Nadine Fegley	1
05895	Total Cyanide (solid)	SW-846 9012A	1	11/21/2002 12:14		Timothy M Petree	1
01216	PCBs in Solids	SW-846 8082	1	11/22/2002 13:14		Nicole M Kepley	1
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	11/21/2002 21:38		Tiffany A Leyda	50
04689	TCL SW846 Semivolatiles/Soil	SW-846 8270C	1	11/20/2002 00:28		Linda M Hartenstine	1
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	11/20/2002 00:28		Linda M Hartenstine	1
05442	EPA SW846/8260 (soil) cont	SW-846 8260B	1	11/15/2002 03:53		Bryan J Polick	1
07103	Grain Size to 1 um	ASTM D-422	1	11/15/2002 03:53		Bryan J Polick	1
00374	GC/MS VOA Soil Prep	SW-846 5030A	1	11/15/2002 10:30		Catherine L Cammauf	1
00381	BNA Soil Extraction	SW-846 3550B	1	11/14/2002 23:16		Bryan J Polick	n.a.
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/15/2002 10:30		Olivia Arosemena	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	11/18/2002 19:00		Luis E Villamil	1
05896	Cyanide Solid Distillation	SW-846 9012A, mod.	1	11/19/2002 16:17		Charles R Looper	1
			1	11/19/2002 09:55		Cheryl L Robinson	1



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Lancaster Laboratories Sample No. SW 3940101

Collected: 11/12/2002 11:15 by TM

Account Number: 04285

Submitted: 11/14/2002 09:15

Ciba Specialty Chemicals Corp
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Toms River NJ 08754-0071

Reported: 11/29/2002 at 11:46

Discard: 01/29/2003

SD-16M-4-6 Composite Sediment Sample

Pawtuxet River Sediment, RI

16M46

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
01625	Thallium	7440-28-0	N.D.	1.0	mg/kg	1
01649	Cadmium	7440-43-9	0.11	0.094	mg/kg	1
01653	Copper	7440-50-8	10.2	0.17	mg/kg	1
01655	Lead	7439-92-1	13.1	0.97	mg/kg	1
01672	Zinc	7440-66-6	33.4	0.37	mg/kg	1
00111	Moisture	n.a.	6.91	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
02079	TOC Solids/Sludges Combustion	n.a.	3,740.	160.	mg/kg	1
05895	Total Cyanide (solid)	57-12-5	N.D.	0.19	mg/kg	1
01216	PCBs in Solids					
01496	PCB-1221	11104-28-2	N.D.	3.5	ug/kg	1
01497	PCB-1232	11141-16-5	N.D.	3.5	ug/kg	1
01498	PCB-1242	53469-21-9	N.D.	3.5	ug/kg	1
01499	PCB-1248	12672-29-6	N.D.	3.5	ug/kg	1
01500	PCB-1254	11097-69-1	77.	3.5	ug/kg	1
01501	PCB-1260	11096-82-5	26.	3.5	ug/kg	1
04688	TCL SW846 Semivolatiles Soil					
03755	1,2-Dichlorobenzene	95-50-1	N.D.	35.	ug/kg	1
04693	4-Chloroaniline	106-47-8	N.D.	35.	ug/kg	1
04694	2-Methylnaphthalene	91-57-6	N.D.	35.	ug/kg	1
04689	TCL SW846 Semivolatiles/Soil					
01195	Pyrene	129-00-0	750.	35.	ug/kg	1
03776	Anthracene	120-12-7	100.	35.	ug/kg	1
03778	Fluoranthene	206-44-0	740.	35.	ug/kg	1
03781	Benzo(a)anthracene	56-55-3	390.	35.	ug/kg	1
03782	Chrysene	218-01-9	440.	35.	ug/kg	1
03786	Benzo(b)fluoranthene	205-99-2	530.	35.	ug/kg	1
03787	Benzo(k)fluoranthene	207-08-9	210.	35.	ug/kg	1
03788	Benzo(a)pyrene	50-32-8	380.	35.	ug/kg	1
03789	Indeno(1,2,3-cd)pyrene	193-39-5	290.	35.	ug/kg	1
03790	Dibenz(a,h)anthracene	53-70-3	85.	35.	ug/kg	1
03791	Benzo(g,h,i)perylene	191-24-2	260.	35.	ug/kg	1

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Lancaster Laboratories Sample No. SW 3940101

Collected: 11/12/2002 11:15 by TM

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Ciba Specialty Chemicals Corp
Bldg 743 -Route 37 West
P.O. Box 71
Toms River NJ 08754-0071

Reported: 11/29/2002 at 11:46

Discard: 01/29/2003

SD-16M-4-6 Composite Sediment Sample

Pawtuxet River Sediment, RI

16M46

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
05441	EPA SW846/8260 (soil)					
05466	Toluene	108-88-3	N.D.	1.	ug/kg	1
05472	Chlorobenzene	108-90-7	N.D.	1.	ug/kg	1
05442	EPA SW846/8260 (soil) cont					
05475	m+p-Xylene	1330-20-7	N.D.	1.	ug/kg	1
05476	o-Xylene	95-47-6	N.D.	1.	ug/kg	1
07103	Grain Size to 1 um					
07135	75 mm	n.a.	100.	0.50	%	1
07136	37.5 mm	n.a.	100.	0.50	% Passing	1
07137	19 mm	n.a.	100.	0.50	% Passing	1
07138	4.75 mm	n.a.	100.	0.50	% Passing	1
07139	3.35 mm	n.a.	99.9	0.50	% Passing	1
07140	2.36 mm	n.a.	99.5	0.50	% Passing	1
07141	1.18 mm	n.a.	94.2	0.50	% Passing	1
07142	0.6 mm	n.a.	47.3	0.50	% Passing	1
07143	0.3 mm	n.a.	4.8	0.50	% Passing	1
07144	0.15 mm	n.a.	3.5	0.50	% Passing	1
07145	0.075 mm	n.a.	3.4	0.50	% Passing	1
07146	0.064 mm	n.a.	4.0	0.50	% Passing	1
07147	0.05 mm	n.a.	3.5	0.50	% Passing	1
07148	0.02 mm	n.a.	2.0	0.50	% Passing	1
07149	0.005 mm	n.a.	N.D.	0.50	% Passing	1
07150	0.002 mm	n.a.	N.D.	0.50	% Passing	1
07151	0.001 mm	n.a.	N.D.	0.50	% Passing	1

The hydrometer values (particle sizes 0.064 mm to 0.001 mm) are



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Lancaster Laboratories Sample No. SW 3940101

Collected: 11/12/2002 11:15 by TM

Account Number: 04285

Submitted: 11/14/2002 09:15

Ciba Specialty Chemicals Corp

Reported: 11/29/2002 at 11:46

Bldg 743 -Route 37 West

Discard: 01/29/2003

P.O. Box 71

SD-16M-4-6 Composite Sediment Sample

Toms River NJ 08754-0071

Pawtuxet River Sediment, RI

16M46

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
	interpolated from the plotted data.					

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Date and Time	Analysis Analyst	Dilutio: Factor
01625	Thallium	SW-846 6010B	1	11/20/2002 03:53	Donna R Sackett	1
01649	Cadmium	SW-846 6010B	1	11/20/2002 03:53	Donna R Sackett	1
01653	Copper	SW-846 6010B	1	11/20/2002 03:53	Donna R Sackett	1
01655	Lead	SW-846 6010B	1	11/20/2002 03:53	Donna R Sackett	1
01672	Zinc	SW-846 6010B	1	11/20/2002 03:53	Donna R Sackett	1
00111	Moisture	EPA 160.3 modified	1	11/15/2002 09:51	Nadine Pegley	1
02079	TOC Solids/Sludges Combustion	SM18 5310B, modified	1	11/21/2002 12:23	Timothy M Petree	1
05895	Total Cyanide (solid)	SW-846 9012A	1	11/22/2002 13:15	Nicole M Kepley	1
01216	PCBs in Solids	SW-846 8082	1	11/21/2002 06:06	Tiffany A Leyda	1
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	11/20/2002 01:29	Linda M Hartenstine	1
04689	TCL SW846 Semivolatiles/Soil	SW-846 8270C	1	11/20/2002 01:29	Linda M Hartenstine	1
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	11/15/2002 04:24	Bryan J Polick	1
05442	EPA SW846/8260 (soil) cont	SW-846 8260B	1	11/15/2002 04:24	Bryan J Polick	1
07103	Grain Size to 1 um	ASTM D-422	1	11/15/2002 10:30	Catherine L Cammauf	1
00374	GC/MS VOA Soil Prep	SW-846 5030A	1	11/14/2002 23:18	Bryan J Polick	n.a.
00381	BNA Soil Extraction	SW-846 3550B	1	11/15/2002 10:30	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/18/2002 19:00	Luis E Villamil	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	11/19/2002 16:17	Charles R Looper	1
05896	Cyanide Solid Distillation	SW-846 9012A, mod.	1	11/19/2002 09:55	Cheryl L Robinson	1



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Lancaster Laboratories Sample No. SW 3940102

Collected: 11/12/2002 11:15 by TM

Account Number: 04285

Submitted: 11/14/2002 09:15

Ciba Specialty Chemicals Corp
Bldg 743 -Route 37 West
P.O. Box 71
Toms River NJ 08754-0071

Reported: 11/29/2002 at 11:46

Discard: 01/29/2003

SD-16M-6-12 Composite Sediment Sample

Pawtuxet River Sediment, RI

16M12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
01625	Thallium	7440-28-0	N.D.	1.1	mg/kg	1
01649	Cadmium	7440-43-9	0.12	0.098	mg/kg	1
01653	Copper	7440-50-8	14.7	0.17	mg/kg	1
01655	Lead	7439-92-1	49.1	1.0	mg/kg	1
01672	Zinc	7440-66-6	35.2	0.39	mg/kg	1
00111	Moisture	n.a.	8.77	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
02079	TOC Solids/Sludges Combustion	n.a.	530.	140.	mg/kg	1
05895	Total Cyanide (solid)	57-12-5	N.D.	0.19	mg/kg	1
01216	PCBs in Solids					
01496	PCB-1221	11104-28-2	N.D.	18.	ug/kg	5
01497	PCB-1232	11141-16-5	N.D.	18.	ug/kg	5
01498	PCB-1242	53469-21-9	N.D.	18.	ug/kg	5
01499	PCB-1248	12672-29-6	N.D.	18.	ug/kg	5
01500	PCB-1254	11097-69-1	61.	18.	ug/kg	5
01501	PCB-1260	11096-82-5	39.	18.	ug/kg	5
Accurate surrogate recoveries could not be determined due to the dilution required for analysis of the sample.						
04688	TCL SW846 Semivolatiles Soil					
03755	1,2-Dichlorobenzene	95-50-1	N.D.	36.	ug/kg	1
04693	4-Chloroaniline	106-47-8	N.D.	36.	ug/kg	1
04694	2-Methylnaphthalene	91-57-6	N.D.	36.	ug/kg	1
04689	TCL SW846 Semivolatiles/Soil					
01195	Pyrene	129-00-0	420.	36.	ug/kg	1
03776	Anthracene	120-12-7	58.	36.	ug/kg	1
03778	Fluoranthene	206-44-0	390.	36.	ug/kg	1
03781	Benzo(a)anthracene	56-55-3	210.	36.	ug/kg	1
03782	Chrysene	218-01-9	240.	36.	ug/kg	1
03786	Benzo(b)fluoranthene	205-99-2	280.	36.	ug/kg	1
03787	Benzo(k)fluoranthene	207-08-9	110.	36.	ug/kg	1
03788	Benzo(a)pyrene	50-32-8	220.	36.	ug/kg	1
03789	Indeno(1,2,3-cd)pyrene	193-39-5	140.	36.	ug/kg	1

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Lancaster Laboratories Sample No. SW 3940102

Collected: 11/12/2002 11:15 by TM

Account Number: 04285

Submitted: 11/14/2002 09:15

Ciba Specialty Chemicals Corp
Bldg 743 -Route 37 West
P.O. Box 71
Toms River NJ 08754-0071

Reported: 11/29/2002 at 11:46

Discard: 01/29/2003

SD-16M-6-12 Composite Sediment Sample

Pawtuxet River Sediment, RI

16M12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
03790	Dibenz(a,h)anthracene	53-70-3	46.	36.	ug/kg	1
03791	Benzo(g,h,i)perylene	191-24-2	160.	36.	ug/kg	1
05441	EPA SW846/8260 (soil)					
05466	Toluene	108-88-3	N.D.	1.	ug/kg	1
05472	Chlorobenzene	108-90-7	N.D.	1.	ug/kg	1
05442	EPA SW846/8260 (soil) cont					
05475	m+p-Xylene	1330-20-7	N.D.	1.	ug/kg	1
05476	o-Xylene	95-47-6	N.D.	1.	ug/kg	1
07103	Grain Size to 1 um					
07135	75 mm	n.a.	100.	0.50	% Passing	1
07136	37.5 mm	n.a.	100.	0.50	% Passing	1
07137	19 mm	n.a.	100.	0.50	% Passing	1
07138	4.75 mm	n.a.	100.	0.50	% Passing	1
07139	3.35 mm	n.a.	99.9	0.50	% Passing	1
07140	2.36 mm	n.a.	99.7	0.50	% Passing	1
07141	1.18 mm	n.a.	94.0	0.50	% Passing	1
07142	0.6 mm	n.a.	44.3	0.50	% Passing	1
07143	0.3 mm	n.a.	1.6	0.50	% Passing	1
07144	0.15 mm	n.a.	1.6	0.50	% Passing	1
07145	0.075 mm	n.a.	1.5	0.50	% Passing	1
07146	0.064 mm	n.a.	2.0	0.50	% Passing	1
07147	0.05 mm	n.a.	2.0	0.50	% Passing	1
07148	0.02 mm	n.a.	1.0	0.50	% Passing	1
07149	0.005 mm	n.a.	N.D.	0.50	% Passing	1
07150	0.002 mm	n.a.	N.D.	0.50	% Passing	1
07151	0.001 mm	n.a.	N.D.	0.50	% Passing	1

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Lancaster Laboratories Sample No. SW 3940102

Collected: 11/12/2002 11:15 by TM

Account Number: 04285

Submitted: 11/14/2002 09:15

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Toms River NJ 08754-0071

Reported: 11/29/2002 at 11:46

Discard: 01/29/2003

SD-16M-6-12 Composite Sediment Sample

Pawtuxet River Sediment, RI

16M12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
						Passing

The hydrometer values (particle sizes 0.064 mm to 0.001 mm) are interpolated from the plotted data.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis	Dilution Factor
			Trial# Date and Time	Analyst
01625	Thallium	SW-846 6010B	1 11/20/2002 03:58	Donna R Sackett
01649	Cadmium	SW-846 6010B	1 11/20/2002 03:58	Donna R Sackett
01653	Copper	SW-846 6010B	1 11/20/2002 03:58	Donna R Sackett
01655	Lead	SW-846 6010B	1 11/20/2002 03:58	Donna R Sackett
01672	Zinc	SW-846 6010B	1 11/20/2002 03:58	Donna R Sackett
00111	Moisture	EPA 160.3 modified	1 11/20/2002 03:58	Donna R Sackett
02079	TOC Solids/Sludges Combustion	SM18 5310B, modified	1 11/15/2002 09:51	Nadine Fegley
05895	Total Cyanide (solid)	SW-846 9012A	1 11/21/2002 12:32	Timothy M Petree
01216	PCBs in Solids	SW-846 8082	1 11/22/2002 13:16	Nicole M Kepley
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1 11/21/2002 06:29	Tiffany A Leyda
04689	TCL SW846 Semivolatiles/Soil	SW-846 8270C	1 11/20/2002 02:29	Linda M Hartenstine
05441	EPA SW846/8260 (soil)	SW-846 8260B	1 11/20/2002 04:55	Bryan J Polick
05442	EPA SW846/8260 (soil) cont	SW-846 8260B	1 11/15/2002 04:55	Bryan J Polick
07103	Grain Size to 1 um	ASTM D-422	1 11/15/2002 10:30	Catherine L Cammauf
00374	GC/MS VOA Soil Prep	SW-846 5030A	1 11/14/2002 23:20	Bryan J Polick
00381	BNA Soil Extraction	SW-846 3550B	1 11/15/2002 10:30	n.a.
00819	Solid Sample Pesticide Extract	SW-846 3550B	1 11/18/2002 19:00	Olivia Arosemena
05708	SW SW846 ICP Digest	SW-846 3050B	1 11/19/2002 16:17	Luis E Villamil
05896	Cyanide Solid Distillation	SW-846 9012A, mod.	1 11/19/2002 09:55	Charles R Looper
				Cheryl L Robinson



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Lancaster Laboratories Sample No. SW 3940093

Collected: 11/12/2002 11:00 by TM

Account Number: 04285

Submitted: 11/14/2002 09:15

Ciba Specialty Chemicals Corp

Reported: 11/29/2002 at 11:44

Bldg 743 -Route 37 West

Discard: 01/29/2003

P.O. Box 71

SD-20M-0-6 Composite Sediment Sample

Toms River NJ 08754-0071

Pawtuxet River Sediment, RI

20M06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
01625	Thallium	7440-28-0	N.D.	1.00	mg/kg	1
01649	Cadmium	7440-43-9	0.10	0.092	mg/kg	1
01653	Copper	7440-50-8	6.5	0.16	mg/kg	1
01655	Lead	7439-92-1	29.2	0.96	mg/kg	1
01672	Zinc	7440-66-6	28.6	0.37	mg/kg	1
00111	Moisture	n.a.	6.26	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
02079	TOC Solids/Sludges Combustion	n.a.	820.	150.	mg/kg	1
05895	Total Cyanide (solid)	57-12-5	N.D.	0.19	mg/kg	1
01216	PCBs in Solids					
01496	PCB-1221	11104-28-2	N.D.	3.5	ug/kg	1
01497	PCB-1232	11141-16-5	N.D.	3.5	ug/kg	1
01498	PCB-1242	53469-21-9	N.D.	3.5	ug/kg	1
01499	PCB-1248	12672-29-6	N.D.	3.5	ug/kg	1
01500	PCB-1254	11097-69-1	57.	3.5	ug/kg	1
01501	PCB-1260	11096-82-5	N.D.	3.5	ug/kg	1
04688	TCL SW846 Semivolatiles Soil					
03755	1,2-Dichlorobenzene	95-50-1	N.D.	35.	ug/kg	1
04693	4-Chloroaniline	106-47-8	N.D.	35.	ug/kg	1
04694	2-Methylnaphthalene	91-57-6	N.D.	35.	ug/kg	1
04689	TCL SW846 Semivolatiles/Soil					
01195	Pyrene	129-00-0	820.	35.	ug/kg	1
03776	Anthracene	120-12-7	130.	35.	ug/kg	1
03778	Fluoranthene	206-44-0	850.	35.	ug/kg	1
03781	Benzo(a)anthracene	56-55-3	340.	35.	ug/kg	1
03782	Chrysene	218-01-9	350.	35.	ug/kg	1
03786	Benzo(b)fluoranthene	205-99-2	440.	35.	ug/kg	1
03787	Benzo(k)fluoranthene	207-08-9	180.	35.	ug/kg	1
03788	Benzo(a)pyrene	50-32-8	330.	35.	ug/kg	1
03789	Indeno(1,2,3-cd)pyrene	193-39-5	310.	35.	ug/kg	1
03790	Dibenz(a,h)anthracene	53-70-3	84.	35.	ug/kg	1
03791	Benzo(g,h,i)perylene	191-24-2	310.	35.	ug/kg	1

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Lancaster Laboratories Sample No. SW 3940093

Collected: 11/12/2002 11:00 by TM

Account Number: 04285

Submitted: 11/14/2002 09:15

Ciba Specialty Chemicals Corp
Bldg 743 -Route 37 West
P.O. Box 71
Toms River NJ 08754-0071

Reported: 11/29/2002 at 11:44

Discard: 01/29/2003

SD-20M-0-6 Composite Sediment Sample

Pawtuxet River Sediment, RI

20M06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
05441	EPA SW846/8260 (soil)					
05466	Toluene	108-88-3	N.D.	1.	ug/kg	1
05472	Chlorobenzene	108-90-7	N.D.	1.	ug/kg	1
05442	EPA SW846/8260 (soil) cont					
05475	m+p-Xylene	1330-20-7	N.D.	1.	ug/kg	1
05476	o-Xylene	95-47-6	N.D.	1.	ug/kg	1
07103	Grain Size to 1 um					
07135	75 mm	n.a.	100.	0.50	% Passing	1
07136	37.5 mm	n.a.	100.	0.50	% Passing	1
07137	19 mm	n.a.	100.	0.50	% Passing	1
07138	4.75 mm	n.a.	97.4	0.50	% Passing	1
07139	3.35 mm	n.a.	93.4	0.50	% Passing	1
07140	2.36 mm	n.a.	85.7	0.50	% Passing	1
07141	1.18 mm	n.a.	64.6	0.50	% Passing	1
07142	0.6 mm	n.a.	23.9	0.50	% Passing	1
07143	0.3 mm	n.a.	3.3	0.50	% Passing	1
07144	0.15 mm	n.a.	1.9	0.50	% Passing	1
07145	0.075 mm	n.a.	1.7	0.50	% Passing	1
07146	0.064 mm	n.a.	1.5	0.50	% Passing	1
07147	0.05 mm	n.a.	2.5	0.50	% Passing	1
07148	0.02 mm	n.a.	3.5	0.50	% Passing	1
07149	0.005 mm	n.a.	1.0	0.50	% Passing	1
07150	0.002 mm	n.a.	1.0	0.50	% Passing	1
07151	0.001 mm	n.a.	1.0	0.50	% Passing	1

The hydrometer values (particle sizes 0.064 mm to 0.001 mm) are



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Lancaster Laboratories Sample No. SW 3940093

Collected: 11/12/2002 11:00 by TM

Account Number: 04285

Submitted: 11/14/2002 09:15

Ciba Specialty Chemicals Corp
Bldg 743 -Route 37 West
P.O. Box 71
Toms River NJ 08754-0071

Reported: 11/29/2002 at 11:44

Discard: 01/29/2003

SD-20M-0-6 Composite Sediment Sample

Pawtuxet River Sediment, RI

20M06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
	interpolated from the plotted data.					

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Date and Time	Analysis	Analyst	Dilution Factor
01625	Thallium	SW-846 6010B	1	11/20/2002 03:09		Donna R Sackett	1
01649	Cadmium	SW-846 6010B	1	11/20/2002 03:09		Donna R Sackett	1
01653	Copper	SW-846 6010B	1	11/20/2002 03:09		Donna R Sackett	1
01655	Lead	SW-846 6010B	1	11/20/2002 03:09		Donna R Sackett	1
01672	Zinc	SW-846 6010B	1	11/20/2002 03:09		Donna R Sackett	1
00111	Moisture	EPA 160.3 modified	1	11/20/2002 03:09		Donna R Sackett	1
02079	TOC Solids/Sludges Combustion	SM18 5310B, modified	1	11/15/2002 09:51		Nadine Fegley	1
			1	11/22/2002 12:13		Timothy M Petree	1
05895	Total Cyanide (solid)	SW-846 9012A	1	11/22/2002 13:01		Nicole M Kepley	1
01216	PCBs in Solids	SW-846 8082	1	11/21/2002 02:15		Tiffany A Leyda	1
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	11/19/2002 10:10		Jason C Arnold	1
04689	TCL SW846 Semivolatiles/Soil	SW-846 8270C	1	11/19/2002 10:10		Jason C Arnold	1
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	11/14/2002 23:16		Bryan J Polick	1
05442	EPA SW846/8260 (soil) cont	SW-846 8260B	1	11/14/2002 23:16		Bryan J Polick	1
07103	Grain Size to 1 um	ASTM D-422	1	11/15/2002 10:30		Catherine L Cammauf	1
00374	GC/MS VOA Soil Prep	SW-846 5030A	1	11/14/2002 22:45		Bryan J Polick	n.a.
00381	BNA Soil Extraction	SW-846 3550B	1	11/15/2002 10:30		Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/18/2002 19:00		Luis E Villamil	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	11/19/2002 16:17		Charles R Looper	1
05896	Cyanide Solid Distillation	SW-846 9012A, mod.	1	11/19/2002 09:55	Cheryl L Robinson	1



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Quality Control Summary

Client Name: Ciba Specialty Chemicals Corp
 Reported: 12/11/02 at 12:24 PM

Group Number: 831249

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	LCS %REC	LCSD %REC	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 023230011A			Sample number(s): 3942190-3942195					
PCB-1221	N.D.	3.3	ug/kg					
PCB-1232	N.D.	3.3	ug/kg					
PCB-1242	N.D.	3.3	ug/kg					
PCB-1248	N.D.	3.3	ug/kg					
PCB-1254	N.D.	3.3	ug/kg					
PCB-1260	N.D.	3.3	ug/kg	112		76-122		
Batch number: 02323820002A			Sample number(s): 3942182-3942185					
Moisture				100			99-101	
Batch number: 02323820002B			Sample number(s): 3942186-3942195					
Moisture				100			99-101	
Batch number: 02323SLB026			Sample number(s): 3942182-3942191					
Pyrene	N.D.	33.	ug/kg	99		67-123		
1,2-Dichlorobenzene	N.D.	33.	ug/kg	81		64-107		
Anthracene	N.D.	33.	ug/kg	79		64-116		
Fluoranthene	N.D.	33.	ug/kg	76		65-115		
Benzo(a)anthracene	N.D.	33.	ug/kg	92		69-115		
Chrysene	N.D.	33.	ug/kg	83		67-119		
Benzo(b)fluoranthene	N.D.	33.	ug/kg	93		66-122		
Benzo(k)fluoranthene	N.D.	33.	ug/kg	96		66-122		
Benzo(a)pyrene	N.D.	33.	ug/kg	94		72-118		
Indeno(1,2,3-cd)pyrene	N.D.	33.	ug/kg	84		73-118		
Dibenz(a,h)anthracene	N.D.	33.	ug/kg	88		78-126		
Benzo(g,h,i)perylene	N.D.	33.	ug/kg	86		73-119		
4-Chloroaniline	N.D.	33.	ug/kg	66		1-103		
2-Methylnaphthalene	N.D.	33.	ug/kg	82		65-108		
Batch number: 023245708002			Sample number(s): 3942188-3942195					
Thallium	N.D.	.98	mg/kg	106		91-115		
Cadmium	N.D.	.091	mg/kg	100		88-106		
Copper	0.19	.16	mg/kg	102		90-111		
Lead	N.D.	.94	mg/kg	100		86-109		
Zinc	0.79	.36	mg/kg	98		85-111		
Batch number: 02325102201A			Sample number(s): 3942182-3942190					
Total Cyanide (solid)	N.D.	.18	mg/kg	97		90-110		
Batch number: 02325102201B			Sample number(s): 3942191-3942195					
Total Cyanide (solid)	N.D.	.18	mg/kg	97		90-110		
Batch number: 023260009A			Sample number(s): 3942182-3942189					
PCB-1016	N.D.	3.3	ug/kg	94		72-120		
PCB-1221	N.D.	3.3	ug/kg					
PCB-1232	N.D.	3.3	ug/kg					
PCB-1242	N.D.	3.3	ug/kg					
PCB-1248	N.D.	3.3	ug/kg					
PCB-1254	N.D.	3.3	ug/kg					
PCB-1260	N.D.	3.3	ug/kg	112		76-122		
Batch number: 02326SLA026			Sample number(s): 3942192-3942194					
Pyrene	N.D.	33.	ug/kg	98		67-123		
1,2-Dichlorobenzene	N.D.	33.	ug/kg	85		64-107		

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



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Quality Control Summary

Client Name: Ciba Specialty Chemicals Corp
 Reported: 12/11/02 at 12:24 PM

Group Number: 831249

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Anthracene	N.D.	33.	ug/kg	98		64-116		
Fluoranthene	N.D.	33.	ug/kg	91		65-115		
Benzo(a)anthracene	N.D.	33.	ug/kg	97		69-115		
Chrysene	N.D.	33.	ug/kg	95		67-119		
Benzo(b)fluoranthene	N.D.	33.	ug/kg	94		66-122		
Benzo(k)fluoranthene	N.D.	33.	ug/kg	94		66-122		
Benzo(a)pyrene	N.D.	33.	ug/kg	97		72-118		
Indeno(1,2,3-cd)pyrene	N.D.	33.	ug/kg	103		73-118		
Dibenz(a,h)anthracene	N.D.	33.	ug/kg	109		78-126		
Benzo(g,h,i)perylene	N.D.	33.	ug/kg	103		73-119		
4-Chloroaniline	N.D.	33.	ug/kg	49		1-103		
2-Methylnaphthalene	N.D.	33.	ug/kg	90		65-108		
Batch number: 02329011131B TOC Solids/Sludges Combustion			Sample number(s): 3942182-3942191					
			N.D. 60.	mg/kg	101		77-123	
Batch number: 023295708004 Thallium			Sample number(s): 3942182-3942187					
Cadmium	N.D.	.98	mg/kg	106		91-115		
Copper	N.D.	.091	mg/kg	99		88-106		
Lead	0.23	.16	mg/kg	104		90-111		
Zinc	N.D.	.94	mg/kg	100		86-109		
	1.2	.36	mg/kg	102		85-111		
Batch number: 02330011131A TOC Solids/Sludges Combustion			Sample number(s): 3942192-3942195					
			N.D. 60.	mg/kg	95		77-123	
Batch number: 02331SLC026 Pyrene			Sample number(s): 3942195					
1,2-Dichlorobenzene	N.D.	33.	ug/kg	109		67-123		
Anthracene	N.D.	33.	ug/kg	90		64-107		
Fluoranthene	N.D.	33.	ug/kg	91		64-116		
Benzo(a)anthracene	N.D.	33.	ug/kg	90		65-115		
Chrysene	N.D.	33.	ug/kg	98		69-115		
Benzo(b)fluoranthene	N.D.	33.	ug/kg	108		67-119		
Benzo(k)fluoranthene	N.D.	33.	ug/kg	89		66-122		
Benzo(a)pyrene	N.D.	33.	ug/kg	94		66-122		
Indeno(1,2,3-cd)pyrene	N.D.	33.	ug/kg	96		72-118		
Dibenz(a,h)anthracene	N.D.	33.	ug/kg	102		73-118		
Benzo(g,h,i)perylene	N.D.	33.	ug/kg	105		78-126		
4-Chloroaniline	N.D.	33.	ug/kg	99		73-119		
2-Methylnaphthalene	N.D.	33.	ug/kg	47		1-103		
	N.D.	33.	ug/kg	92		65-108		
Batch number: K023231AA Toluene			Sample number(s): 3942183-3942184, 3942188, 3942190-3942195					
Chlorobenzene	N.D.	1.	ug/kg	95		81-116		
m+p-Xylene	N.D.	1.	ug/kg	102		81-112		
o-Xylene	N.D.	1.	ug/kg	106		82-117		
	N.D.	1.	ug/kg	105		82-117		
Batch number: K023231AB Toluene			Sample number(s): 3942182, 3942187					
Chlorobenzene	N.D.	1.	ug/kg	95		81-116		
m+p-Xylene	N.D.	1.	ug/kg	102		81-112		
o-Xylene	N.D.	1.	ug/kg	106		82-117		
	N.D.	1.	ug/kg	105		82-117		
Batch number: Q023111AG Toluene			Sample number(s): 3942185					
			N.D. 125.	ug/kg	96		81-116	

*- Outside of specification

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- (2) The background result was more than four times the spike added.



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Quality Control Summary

Client Name: Ciba Specialty Chemicals Corp
 Reported: 12/11/02 at 12:24 PM

Group Number: 831249

Laboratory Compliance Quality Control

Analysis Name
 m+p-Xylene
 o-Xylene

<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
N.D.	125.	ug/kg	97		82-117		
N.D.	125.	ug/kg	96		82-117		

Batch number: Q023111AH

 Toluene
 Chlorobenzene
 m+p-Xylene
 o-Xylene

Sample number(s): 3942185-3942186
N.D. 125. ug/kg 96
N.D. 125. ug/kg 97
N.D. 125. ug/kg 97
N.D. 125. ug/kg 96

Batch number: Q023242AA

 Toluene
 Chlorobenzene
 m+p-Xylene
 o-Xylene

Sample number(s): 3942189
N.D. 125. ug/kg 96
N.D. 125. ug/kg 97
N.D. 125. ug/kg 96
N.D. 125. ug/kg 95

Batch number: Q023242AB

Chlorobenzene

Sample number(s): 3942183-3942184
N.D. 125. ug/kg 97

81-112

Sample Matrix Quality Control

Analysis Name

 Batch number: 023230011A
 PCB-1260

 Batch number: 02323820002A
 Moisture

 Batch number: 02323820002B
 Moisture

Batch number: 02323SLB026

 Pyrene
 1,2-Dichlorobenzene
 Anthracene
 Fluoranthene
 Benzo(a)anthracene
 Chrysene
 Benzo(b)fluoranthene
 Benzo(k)fluoranthene
 Benzo(a)pyrene
 Indeno(1,2,3-cd)pyrene
 Dibenz(a,h)anthracene
 Benzo(g,h,i)perylene
 4-Chloroaniline
 2-Methylnaphthalene

<u>MS %REC</u>	<u>MS/MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Sample number(s): 3942190-3942195							
114	119	40-142	4	50			
Sample number(s): 3942182-3942185							
					4.61	4.57	1
Sample number(s): 3942186-3942195							
					8.56	8.82	3
Sample number(s): 3942182-3942191							
174*	70	19-152	64*	30			
74	72	22-134	2	30			
115	94	29-141	19	30			
191*	80	21-141	65*	30			
176*	93	22-151	55*	30			
175*	96	22-149	49*	30			
159*	86	23-146	49*	30			
125	87	27-149	33*	30			
168*	91	25-149	52*	30			
156	96	13-157	43*	30			
133	111	14-170	17	30			
159*	97	11-158	44*	30			
80	87	1-127	7	30			
87	85	22-145	2	30			
Sample number(s): 3942188-3942195							
111*	111*	72-109	1	20	N.D.	N.D.	
112	112	75-125	1	20	0.20	0.12	(1)
125	126*	75-125	1	20	22.9	23.6	53* (1)
226*	226*	75-125	0	20	13.4	14.5	3
							20

Batch number: 023245708002

Thallium

Cadmium

Copper

Lead

*- Outside of specification

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Quality Control Summary

Client Name: Ciba Specialty Chemicals Corp
 Reported: 12/11/02 at 12:24 PM

Group Number: 831249

Sample Matrix Quality Control

<u>Analysis Name</u>	MS	MSD	MS/MSD	RPD	BRG	DUP	DUP	Dup RPD Max
	%REC	%REC	Limits	RPD	MAX	Conc	Conc	RPD (1)
Zinc	121	115	75-125	3	20	33.6	38.8	14 (1)
Batch number: 02325102201A			Sample number(s): 3942182-3942190					
Total Cyanide (solid)	100		75-125			N.D.	N.D.	20 (1)
Batch number: 02325102201B			Sample number(s): 3942191-3942195					
Total Cyanide (solid)	96		75-125			N.D.	N.D.	200* (1)
Batch number: 023260009A			Sample number(s): 3942182-3942189					
PCB-1016	106	100	41-140	6	50			
PCB-1260	141	141	40-142	0	50			
Batch number: 02326SLA026			Sample number(s): 3942192-3942194					
Pyrene	(2)	(2)	19-152	53*	30			
1,2-Dichlorobenzene	82	84	22-134	3	30			
Anthracene	92	281*	29-141	54*	30			
Fluoranthene	(2)	(2)	21-141	54*	30			
Benzo(a)anthracene	97	259*	22-151	52*	30			
Chrysene	91	228*	22-149	47*	30			
Benzo(b)fluoranthene	88	205*	23-146	42*	30			
Benzo(k)fluoranthene	94	161*	27-149	37*	30			
Benzo(a)pyrene	99	215*	25-149	45*	30			
Indeno(1,2,3-cd)pyrene	110	193*	13-157	37*	30			
Dibenz(a,h)anthracene	110	135	14-170	17	30			
Benzo(g,h,i)perylene	111	172*	11-158	29	30			
4-Chloroaniline	93	93	1-127	0	30			
2-Methylnaphthalene	77	158*	22-145	19	30			
Batch number: 02329011131B			Sample number(s): 3942182-3942191					
TOC Solids/Sludges Combustion	88		37-132			11,600.	14,300.	21* (1)
Batch number: 023295708004			Sample number(s): 3942182-3942187					
Thallium	97	97	72-109	1	20	N.D.	N.D.	0 (1)
Cadmium	97	97	75-125	1	20	0.22	0.23	2 (1)
Copper	103	107	75-125	4	20	6.8	8.6	23* (1)
Lead	98	103	75-125	4	20	15.2	18.8	21* (1)
Zinc	105	98	75-125	4	20	31.4	35.1	11 (1)
Batch number: 02330011131A			Sample number(s): 3942192-3942195					
TOC Solids/Sludges Combustion	94		37-132			21,500.	21,200.	1 (1)
Batch number: 02331SLC026			Sample number(s): 3942195					
Pyrene	113	119	19-152	5	30			
1,2-Dichlorobenzene	86	91	22-134	5	30			
Anthracene	87	92	29-141	6	30			
Fluoranthene	85	91	21-141	7	30			
Benzo(a)anthracene	93	99	22-151	6	30			
Chrysene	104	110	22-149	5	30			
Benzo(b)fluoranthene	84	91	23-146	8	30			
Benzo(k)fluoranthene	92	93	27-149	1	30			
Benzo(a)pyrene	92	96	25-149	4	30			
Indeno(1,2,3-cd)pyrene	104	112	13-157	8	30			
Dibenz(a,h)anthracene	111	119	14-170	7	30			
Benzo(g,h,i)perylene	106	113	11-158	6	30			
4-Chloroaniline	73	63	1-127	15	30			

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Quality Control Summary

Client Name: Ciba Specialty Chemicals Corp
 Reported: 12/11/02 at 12:24 PM

Group Number: 831249

Sample Matrix Quality Control

<u>Analysis Name</u>	<u>MS</u>	<u>MSD</u>	<u>MS/MSD</u>	<u>RPD</u>	<u>BKG</u>	<u>DUP</u>	<u>DUP</u>	<u>Dup</u>
	<u>%REC</u>	<u>%REC</u>	<u>Limits</u>	<u>RPD</u>	<u>MAX</u>	<u>Conc</u>	<u>Conc</u>	<u>RPD</u>
2-Methylnaphthalene	90	94	22-145	5	30			
Batch number: K023231AA			Sample number(s): 3942183-3942184, 3942188, 3942190-3942195					
Toluene	93	91	41-147	3	30			
Chlorobenzene	97	95	48-132	2	30			
m+p-Xylene	98	96	47-139	2	30			
o-Xylene	100	97	47-139	3	30			
Batch number: K023231AB			Sample number(s): 3942182, 3942187					
Toluene	93	91	41-147	3	30			
Chlorobenzene	97	95	48-132	2	30			
m+p-Xylene	98	96	47-139	2	30			
o-Xylene	100	97	47-139	3	30			
Batch number: Q023111AG			Sample number(s): 3942185					
Toluene	(2)	(2)	41-147	3	30			
m+p-Xylene	(2)	(2)	47-139	2	30			
o-Xylene	(2)	(2)	47-139	2	30			
Batch number: Q023111AH			Sample number(s): 3942185-3942186					
Toluene	(2)	(2)	41-147	3	30			
Chlorobenzene	94	97	48-132	3	30			
m+p-Xylene	(2)	(2)	47-139	2	30			
o-Xylene	(2)	(2)	47-139	2	30			
Batch number: Q023242AA			Sample number(s): 3942189					
Toluene	97	96	41-147	2	30			
Chlorobenzene	96	94	48-132	2	30			
m+p-Xylene	98	97	47-139	2	30			
o-Xylene	98	97	47-139	2	30			
Batch number: Q023242AB			Sample number(s): 3942183-3942184					
Chlorobenzene	96	94	48-132	2	30			

Surrogate Quality Control

Analysis Name: PCBs in Solids
 Batch number: 023230011A

Tetrachloro-m-xylene Decachlorobiphenyl

3942190	97	157*
3942191	91	139*
3942192	115	170*
3942193	114	220*
3942194	103	127
3942195	88	138*
Blank	99	114
LCS	102	129
MS	84	120
MSD	93	144*

*- Outside of specification

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- (2) The background result was more than four times the spike added.



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Quality Control Summary

Client Name: Ciba Specialty Chemicals Corp
 Reported: 12/11/02 at 12:24 PM

Group Number: 831249

Surrogate Quality Control

Limits: 53-139 41-132

Analysis Name: TCL SW846 Semivolatiles/Soil
 Batch number: 02323SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
3942182	87	99	87
3942183	91	95	78
3942184	93	100	79
3942185	87	78	59
3942186	93	98	58
3942187	88	101	78
3942188	84	89	76
3942189	110	100	63
3942190	84	97	65
3942191	88	93	67
Blank	82	91	80
LCS	86	88	95
MS	102	98	69
MSD	101	99	63

Limits: 50-132 57-123 48-141

Analysis Name: PCBs in Solids
 Batch number: 023260009A

	Tetrachloro-m-xylene	Decachlorobiphenyl
3942182	99	1576*
3942183	99	207*
3942184	250*	284*
3942185	140*	362*
3942186	148*	0*
3942187	104	136*
3942188	111	131
3942189	100	368*
Blank	109	121
LCS	108	123
MS	113	71
MSD	111	132

Limits: 53-139 41-132

Analysis Name: TCL SW846 Semivolatiles Soil
 Batch number: 02326SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5
3942192	95	91	90	100
3942193	99	91	91	102
3942194	98	91	87	100
Blank	100	91	99	105
LCS	101	94	100	109
MS	98	89	91	126
MSD	101	95	95	124

Limits: 46-120 46-122 37-139 50-132

	2-Fluorobiphenyl	Terphenyl-d14
3942192	93	80

*- Outside of specification

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Quality Control Summary

Client Name: Ciba Specialty Chemicals Corp
 Reported: 12/11/02 at 12:24 PM

Group Number: 831249

Surrogate Quality Control

3942193	92	95
3942194	89	90
Blank	93	87
LCS	93	89
MS	91	93
MSD	102	98

Limits: 57-123 48-141

Analysis Name: TCL SW846 Semivolatiles Soil
 Batch number: 02331SLC026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5
3942195	79	79	84	78
Blank	88	88	93	94
LCS	87	86	92	94
MS	85	84	88	90
MSD	89	89	91	95

Limits: 46-120 46-122 37-139 50-132

	2-Fluorobiphenyl	Terphenyl-d14
3942195	86	91
Blank	101	78
LCS	99	103
MS	95	107
MSD	99	113

Limits: 57-123 48-141

Analysis Name: EPA SW846/8260 (soil)
 Batch number: K023231AA

	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene	Dibromofluoromethane
3942183	91	102	83	103
3942184	91	98	85	103
3942188	91	96	91	103
3942190	90	104	86	103
3942191	93	97	90	104
3942192	94	95	89	104
3942193	94	97	91	105
3942194	94	97	92	105
3942195	86	109	74	103
Blank	99	93	91	102
LCS	96	95	94	105
MS	94	102	92	105
MSD	99	101	92	106

Limits: 80-120 81-117 74-121 80-120

Analysis Name: EPA SW846/8260 (soil)
 Batch number: K023231AB

	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene	Dibromofluoromethane
3942182	94	105	76	108
3942187	91	103	79	105
Blank	100	95	88	103
LCS	96	95	94	105

*- Outside of specification

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Quality Control Summary

Client Name: Ciba Specialty Chemicals Corp
 Reported: 12/11/02 at 12:24 PM

Group Number: 831249

Surrogate Quality Control

MS	94	102	92	106
MSD	99	101	92	106
Limits:	80-120	81-117	74-121	80-120
Analysis Name:	EPA SW846/8260 (soil)			
Batch number:	Q023111AG			
Dibromofluoromethane		1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
3942185	87	88	82	90
Blank	101	101	98	97
LCS	99	100	97	98
MS	98	94	101	98
MSD	102	102	108	102
Limits:	80-120	80-120	81-117	74-121
Analysis Name:	EPA SW846/8260 (soil)			
Batch number:	Q023111AH			
Dibromofluoromethane		1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
3942186	85	83	82	94
Blank	105	102	100	99
LCS	99	100	97	98
MS	98	94	101	98
MSD	102	102	108	102
Limits:	80-120	80-120	81-117	74-121
Analysis Name:	EPA SW846/8260 (soil)			
Batch number:	Q023242AA			
Dibromofluoromethane		1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
3942189	83	82	78*	84
Blank	105	102	100	99
LCS	99	99	98	99
MS	78*	82	77*	83
MSD	78*	78*	77*	84
Limits:	80-120	80-120	81-117	74-121
Analysis Name:	8260 Master Scan (soil)			
Batch number:	Q023242AB			
Dibromofluoromethane		1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
Blank	103	107	101	100
LCS	99	99	98	99
MS	78*	82	77*	83
MSD	78*	78*	77*	84
Limits:	80-120	80-120	81-117	74-121

*- Outside of specification

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Quality Control Summary

Client Name: Ciba Specialty Chemicals Corp
 Reported: 12/02/02 at 06:24 PM

Group Number: 830998

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 023220006A			Sample number(s): 3940882-3940891					
PCB-1221	N.D.	3.3	ug/kg					
PCB-1232	N.D.	3.3	ug/kg					
PCB-1242	N.D.	3.3	ug/kg					
PCB-1248	N.D.	3.3	ug/kg					
PCB-1254	N.D.	3.3	ug/kg					
PCB-1260	N.D.	3.3	ug/kg	82		76-122		
Batch number: 02322820002A			Sample number(s): 3940882-3940885					
Moisture				100		99-101		
Batch number: 02322820003A			Sample number(s): 3940886-3940891					
Moisture				100		99-101		
Batch number: 02323102201B			Sample number(s): 3940882-3940890					
Total Cyanide (solid)	N.D.	.18	mg/kg	96		90-110		
Batch number: 023235708001			Sample number(s): 3940882					
Thallium	N.D.	.98	mg/kg	105		91-115		
Cadmium	N.D.	.091	mg/kg	97		88-106		
Copper	N.D.	.16	mg/kg	99		90-111		
Lead	N.D.	.94	mg/kg	97		86-109		
Zinc	4.4	.36	mg/kg	98		85-111		
Batch number: 02323SLB026			Sample number(s): 3940882-3940891					
Pyrene	N.D.	33.	ug/kg	99		67-123		
1,2-Dichlorobenzene	N.D.	33.	ug/kg	81		64-107		
Anthracene	N.D.	33.	ug/kg	79		64-116		
Fluoranthene	N.D.	33.	ug/kg	76		65-115		
Benzo(a)anthracene	N.D.	33.	ug/kg	92		69-115		
Chrysene	N.D.	33.	ug/kg	83		67-119		
Benzo(b)fluoranthene	N.D.	33.	ug/kg	93		66-122		
Benzo(k)fluoranthene	N.D.	33.	ug/kg	96		66-122		
Benzo(a)pyrene	N.D.	33.	ug/kg	94		72-118		
Indeno(1,2,3-cd)pyrene	N.D.	33.	ug/kg	84		73-118		
Dibenz(a,h)anthracene	N.D.	33.	ug/kg	88		78-126		
Benzo(g,h,i)perylene	N.D.	33.	ug/kg	86		73-119		
4-Chloroaniline	N.D.	33.	ug/kg	66		1-103		
2-Methylnaphthalene	N.D.	33.	ug/kg	82		65-108		
Batch number: 02325102201A			Sample number(s): 3940891					
Total Cyanide (solid)	N.D.	.18	mg/kg	97		90-110		
Batch number: 02329011131A			Sample number(s): 3940882-3940891					
TOC Solids/Sludges Combustion	N.D.	60.	mg/kg	101		77-123		
Batch number: 023295708004			Sample number(s): 3940883-3940891					
Thallium	N.D.	.98	mg/kg	106		91-115		
Cadmium	N.D.	.091	mg/kg	99		88-106		
Copper	0.23	.16	mg/kg	104		90-111		
Lead	N.D.	.94	mg/kg	100		86-109		
Zinc	1.2	.36	mg/kg	102		85-111		
Batch number: K023161AD			Sample number(s): 3940882-3940891					
Toluene	N.D.	1.	ug/kg	95	88	81-116		

*- Outside of specification

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- (2) The background result was more than four times the spike added.



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Quality Control Summary

Client Name: Ciba Specialty Chemicals Corp
 Reported: 12/02/02 at 06:24 PM

Group Number: 830998

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Chlorobenzene	N.D.	1.	ug/kg	96	88	81-112		
m+p-Xylene	N.D.	1.	ug/kg	98	93	82-117		
o-Xylene	N.D.	1.	ug/kg	98	93	82-117		

Sample Matrix Quality Control

<u>Analysis Name</u>	<u>MS</u>	<u>MSD</u>	<u>MS/MSD</u>	<u>RPD</u>	<u>BKG</u>	<u>DUP</u>	<u>DUP</u>	<u>Dup RPD Max</u>
	<u>%REC</u>	<u>%REC</u>	<u>Limits</u>	<u>RPD</u>	<u>MAX</u>	<u>Conc</u>	<u>Conc</u>	<u>RPD</u>
Batch number: 023220006A PCB-1260			Sample number(s): 3940882-3940891 129 118 40-142 10 50					
Batch number: 02322820002A Moisture			Sample number(s): 3940882-3940885		58.4	59.8	2	15
Batch number: 02322820003A Moisture			Sample number(s): 3940886-3940891		8.38	8.10	3	15
Batch number: 02323102201B Total Cyanide (solid)			Sample number(s): 3940882-3940890 12* 75-125		0.19	N.D.	5 (1)	20
Batch number: 023235708001 Thallium			Sample number(s): 3940882 104 105 72-109 1 20		1.9	3.3	55* (1)	20
Cadmium			103 103 75-125 1 20		N.D.	N.D.	0 (1)	20
Copper			170* 179* 75-125 4 20		12.8	28.0	74* (1)	20
Lead			116 118 75-125 2 20		6.9	15.2	75* (1)	20
Zinc			202* 198* 75-125 2 20		35.1	68.8	65* (1)	20
Batch number: 02323SLB026 Pyrene			Sample number(s): 3940882-3940891 174* 70 19-152 64* 30					
1,2-Dichlorobenzene			74 72 22-134 2 30					
Anthracene			115 94 29-141 19 30					
Fluoranthene			191* 80 21-141 65* 30					
Benzo(a)anthracene			176* 93 22-151 55* 30					
Chrysene			175* 96 22-149 49* 30					
Benzo(b)fluoranthene			159* 86 23-146 49* 30					
Benzo(k)fluoranthene			125 87 27-149 33* 30					
Benzo(a)pyrene			168* 91 25-149 52* 30					
Indeno(1,2,3-cd)pyrene			156 96 13-157 43* 30					
Dibenz(a,h)anthracene			133 111 14-170 17 30					
Benzo(g,h,i)perylene			159* 97 11-158 44* 30					
4-Chloroaniline			80 87 1-127 7 30					
2-Methylnaphthalene			87 85 22-145 2 30					
Batch number: 02325102201A Total Cyanide (solid)			Sample number(s): 3940891 100 75-125		N.D.	N.D.	20 (1)	20
Batch number: 02329011131A TOC Solids/Sludges Combustion			Sample number(s): 3940882-3940891 92 37-132		8,600.	10,100.	16* (1)	14
Batch number: 023295708004 Thallium			Sample number(s): 3940883-3940891 97 97 72-109 1 20		N.D.	N.D.	0 (1)	20
Cadmium			97 97 75-125 1 20		0.22	0.23	2 (1)	20

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Quality Control Summary

Client Name: Ciba Specialty Chemicals Corp
 Reported: 12/02/02 at 06:24 PM

Group Number: 830998

Sample Matrix Quality Control

<u>Analysis Name</u>	MS	MSD	MS/MSD	RPD	BKG	DUP	DUP	Dup RPD Max	
Copper	103	107	75-125	4	20	6.8	8.6	23* (1) 20	
Lead	98	103	75-125	4	20	15.2	18.8	21* (1) 20	
Zinc	105	98	75-125	4	20	31.4	35.1	11 (1) 20	
Batch number: K023161AD		Sample number(s): 3940882-3940891							
Toluene	89	87	41-147	3	30				
Chlorobenzene	91	89	48-132	2	30				
m+p-Xylene	92	91	47-139	1	30				
o-Xylene	93	92	47-139	2	30				

Surrogate Quality Control

Analysis Name: PCBs in Solids

Batch number: 023220006A

Tetrachloro-m-xylene Decachlorobiphenyl

3940882	104	310*
3940883	100	313*
3940884	105	387*
3940885	103	589*
3940886	108	226*
3940887	94	163*
3940888	102	129
3940889	94	112
3940890	96	108
3940891	93	105

Limits: 53-139 41-132

Analysis Name: TCL SW846 Semivolatiles/Soil
 Batch number: 02323SLB026

Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14

3940882	94	95	88
3940883	91	93	90
3940884	99	97	91
3940885	91	95	89
3940886	88	98	96
3940887	88	98	92
3940888	86	98	96
3940889	74	84	86
3940890	80	88	85
3940891	85	93	97
Blank	82	91	80
LCS	86	88	95
MS	102	98	69
MSD	101	99	63

Limits: 50-132 57-123 48-141

Analysis Name: EPA SW846/8260 (soil)

*- Outside of specification

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Quality Control Summary

Client Name: Ciba Specialty Chemicals Corp
 Reported: 12/02/02 at 06:24 PM

Group Number: 830998

Surrogate Quality Control

Batch number: K023161AD

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
3940882	106	92	108	75
3940883	102	91	103	91
3940884	103	88	104	90
3940885	102	85	103	110
3940886	103	91	111	77
3940887	102	88	104	79
3940888	103	93	96	92
3940889	104	94	95	92
3940890	103	92	95	92
3940891	105	95	94	92
Blank	104	97	94	93
LCS	103	100	104	105
LCSD	101	102	104	104
MS	101	98	104	105
MSD	104	97	103	104
Limits:	80-120	80-120	81-117	74-121

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Quality Control Summary

Client Name: Ciba Specialty Chemicals Corp
 Reported: 11/29/02 at 11:47 AM

Group Number: 830814

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	LCS %REC	LCSD %REC	LCS/LCSD Limits	<u>RPD</u>	<u>RPD Max</u>
Batch number: 02319820002A Moisture			Sample number(s): 3940093-3940097		100	99-101		
Batch number: 02319820002B Moisture			Sample number(s): 3940098-3940102		100	99-101		
Batch number: 02319SLA026 Pyrene 1,2-Dichlorobenzene Anthracene Fluoranthene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene 4-Chloroaniline 2-Methylnaphthalene	N.D.	33.	ug/kg	87	67-123			
	N.D.	33.	ug/kg	78	64-107			
	N.D.	33.	ug/kg	83	64-116			
	N.D.	33.	ug/kg	79	65-115			
	N.D.	33.	ug/kg	87	69-115			
	N.D.	33.	ug/kg	86	67-115			
	N.D.	33.	ug/kg	88	66-122			
	N.D.	33.	ug/kg	88	66-122			
	N.D.	33.	ug/kg	87	72-118			
	N.D.	33.	ug/kg	96	73-118			
	N.D.	33.	ug/kg	96	78-126			
	N.D.	33.	ug/kg	96	73-119			
	N.D.	33.	ug/kg	36	1-103			
	N.D.	33.	ug/kg	77	65-108			
Batch number: 023220006A PCB-1221 PCB-1232 PCB-1242 PCB-1248 PCB-1254 PCB-1260			Sample number(s): 3940093-3940102					
	N.D.	3.3	ug/kg					
	N.D.	3.3	ug/kg					
	N.D.	3.3	ug/kg					
	N.D.	3.3	ug/kg					
	N.D.	3.3	ug/kg					
	N.D.	3.3	ug/kg	82	76-122			
Batch number: 02323102201A Total Cyanide (solid)			Sample number(s): 3940093-3940102					
	N.D.	.18	mg/kg	96	90-110			
Batch number: 023235708001 Thallium Cadmium Copper Lead Zinc			Sample number(s): 3940093-3940102					
	N.D.	.98	mg/kg	105	91-115			
	N.D.	.091	mg/kg	97	88-106			
	N.D.	.16	mg/kg	99	90-111			
	N.D.	.94	mg/kg	97	86-109			
	4.4	.36	mg/kg	98	85-111			
Batch number: 02324011131A TOC Solids/Sludges Combustion			Sample number(s): 3940093-3940100					
	N.D.	60.	mg/kg	82	77-123			
Batch number: 02324011131B TOC Solids/Sludges Combustion			Sample number(s): 3940101-3940102					
	N.D.	60.	mg/kg	82	77-123			
Batch number: D023185AA Toluene Chlorobenzene m+p-Xylene o-Xylene			Sample number(s): 3940093-3940102					
	N.D.	1.	ug/kg	113	81-116			
	N.D.	1.	ug/kg	96	81-112			
	N.D.	1.	ug/kg	109	82-117			
	N.D.	1.	ug/kg	108	82-117			

Sample Matrix Quality Control

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Quality Control Summary

Client Name: Ciba Specialty Chemicals Corp
 Reported: 11/29/02 at 11:47 AM

Group Number: 830814

<u>Analysis Name</u>	MS	MSD	MS/MSD	RPD	BKG	DUP	DUP	Dup RPD Max
	%REC	%REC	Limits	RPD	MAX	Conc	Conc	RPD
Batch number: 02319710301A			Sample number(s): 3940093-3940102					
75 mm					100.	100.	0	20
37.5 mm					100.	100.	0	20
19 mm					100.	100.	0	20
4.75 mm					99.0	99.0	0	20
3.35 mm					98.6	98.6	0	20
2.36 mm					98.0	98.0	0	20
1.18 mm					95.6	95.5	0	20
0.6 mm					89.0	87.5	2	20
0.3 mm					58.3	56.5	3	20
0.15 mm					28.6	28.8	1	20
0.075 mm					22.4	22.8	2	20
0.064 mm					22.0	22.5	2	20
0.05 mm					20.5	21.5	5	20
0.02 mm					14.5	13.5	7	20
0.005 mm					3.0	4.0	29* (1)	20
0.002 mm					2.0	2.5	22* (1)	20
0.001 mm					2.0	1.0	67* (1)	20
Batch number: 02319820002A			Sample number(s): 3940093-3940097					
Moisture					75.5	75.5	0	15
Batch number: 02319820002B			Sample number(s): 3940098-3940102					
Moisture					16.8	17.3	3	15
Batch number: 02319SLA026			Sample number(s): 3940093-3940102					
Pyrene	99	75	19-152	22	30			
1,2-Dichlorobenzene	84	74	22-134	13	30			
Anthracene	90	77	29-141	15	30			
Fluoranthene	75	47	21-141	33*	30			
Benzo(a)anthracene	94	75	22-151	20	30			
Chrysene	103	83	22-149	20	30			
Benzo(b)fluoranthene	95	77	23-146	18	30			
Benzo(k)fluoranthene	105	84	27-149	21	30			
Benzo(a)pyrene	97	78	25-149	20	30			
Indeno(1,2,3-cd)pyrene	116	83	13-157	31*	30			
Dibenz(a,h)anthracene	126	101	14-170	22	30			
Benzo(g,h,i)perylene	122	89	11-158	29	30			
4-Chloroaniline	35	48	1-127	31*	30			
2-Methylnaphthalene	86	77	22-145	11	30			
Batch number: 023220006A			Sample number(s): 3940093-3940102					
PCB-1260	129	118	40-142	10	50			
Batch number: 02323102201A			Sample number(s): 3940093-3940102					
Total Cyanide (solid)	92		75-125			N.D.	N.D.	200* (1) 20
Batch number: 023235708001			Sample number(s): 3940093-3940102					
Thallium	104	105	72-109	1	20	1.9	3.3	55* (1) 20
Cadmium	103	103	75-125	1	20	N.D.	N.D.	0 (1) 20
Copper	170*	179*	75-125	4	20	12.8	28.0	74* (1) 20
Lead	116	118	75-125	2	20	6.9	15.2	75* (1) 20
Zinc	202*	198*	75-125	2	20	35.1	68.8	65* (1) 20
Batch number: 02324011131A			Sample number(s): 3940093-3940100					

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Quality Control Summary

Client Name: Ciba Specialty Chemicals Corp
 Reported: 11/29/02 at 11:47 AM

Group Number: 830814

Sample Matrix Quality Control

Analysis Name	MS	MSD	MS/MSD	RPD	BKG	DUP	DUP	Dup RPD
	%REC	%REC	Limits	RPD	MAX	Conc	Conc	Max
TOC Solids/Sludges Combustion	78		37-132			182,000.	185,000.	2
Batch number: 02324011131B			Sample number(s): 3940101-3940102					
TOC Solids/Sludges Combustion	71		37-132			22,400.	22,300.	0
Batch number: D023185AA			Sample number(s): 3940093-3940102					
Toluene	92	93	41-147	2	30			
Chlorobenzene	93	91	48-132	2	30			
m+p-Xylene	92	93	47-139	1	30			
o-Xylene	92	91	47-139	1	30			

Surrogate Quality Control

Analysis Name: TCL SW846 Semivolatiles Soil
 Batch number: 02319SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5
3940093	76	80	80	85
3940094	85	85	90	88
3940095	82	84	87	86
3940096	75	76	79	78
3940097	80	81	80	81
3940098	75	76	76	78
3940099	79	82	88	82
3940100	81	83	88	86
3940101	83	85	88	88
3940102	81	83	89	86
Blank	83	85	86	89
LCS	79	82	83	86
MS	85	90	93	97
MSD	79	81	82	85
Limits:	46-120	46-122	37-139	50-132
	2-Fluorobiphenyl	Terphenyl-d14		
3940093	89	80		
3940094	93	80		
3940095	90	80		
3940096	80	73		
3940097	83	81		
3940098	80	76		
3940099	87	73		
3940100	90	70		
3940101	89	71		
3940102	88	74		
Blank	91	77		
LCS	88	83		
MS	98	90		
MSD	86	79		

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Quality Control Summary

Client Name: Ciba Specialty Chemicals Corp
 Reported: 11/29/02 at 11:47 AM

Group Number: 830814

Limits: 57-123

48-141

Surrogate Quality Control

Analysis Name: PCBs in Solids
 Batch number: 023220006A

Tetrachloro-m-xylene Decachlorobiphenyl

3940093	96	131
3940094	97	125
3940095	94	134*
3940096	92	118
3940097	94	122
3940098	96	126
3940099	84	118
3940100	139	136*
3940101	96	128
3940102	108	135*

Limits: 53-139 41-132

Analysis Name: EPA SW846/8260 (soil)
 Batch number: D023185AA

	Dibromofluoromethane	1, 2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
3940093	95	97	92	85
3940094	98	89	91	83
3940095	101	91	94	84
3940096	99	88	90	84
3940097	99	86	92	83
3940098	99	87	91	83
3940099	100	93	89	83
3940100	100	89	89	85
3940101	102	93	87	82
3940102	103	91	89	83
Blank	98	97	91	88
LCS	93	96	93	89
MS	95	91	95	87
MSD	96	88	98	88

Limits: 80-120 80-120 81-117 74-121

*- Outside of specification

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